1 of 172 sheets Page 1 to 1 of 457 06/25/2015 03:43:11 PM

Page 2

1	APPEARANCES:
2	
3	NATIONAL FOOTBALL LEAGUE
4	345 Park Avenue New York, New York 10154
5	BY: ROGER GOODELL  Commissioner  JEFFREY PASH, ESQ.
6	Executive Vice President ADOLPHO A. BIRCH III, ESQ.
7	Senior Vice President of Labor Policy and Government Affairs
8	Government Arrairs
9	
10	COVINGTON & BURLING LLP Attorneys for the NFL
11	The New York Times Building 620 Eighth Avenue
12	New York, New York 10018 BY: GREGG LEVY, ESQ.
13	21. 01.200 22.1, 200
14	
15	NATIONAL FOOTBALL LEAGUE MANAGEMENT COUNCIL 345 Park Avenue
16	New York, New York 10154 BY: KEVIN K. MANARA, ESQ.
17	Senior Labor Relations Counsel
18	
19	AKIN, GUMP, STRAUSS, HAUER & FELD LLP
20	Attorneys for the NATIONAL FOOTBALL LEAGUE MANAGEMENT COUNCIL
21	1333 New Hampshire Avenue, N.W. Washington, D.C. 20036
22	BY: DANIEL L. NASH, ESQ. STACEY EISENSTEIN, ESQ.
23	ELIZABETH ENGLAND, ESQ. GREGG KNOPP, ESQ.
24	· <del>-</del>
25	(Appearances continued.)

Page 3

```
APPEARANCES (continued):
 2
 3
        NATIONAL FOOTBALL LEAGUE PLAYERS ASSOCIATION
             1133 20th Street NW
 4
             Washington, D.C. 20036
             BY: TOM DePASO, ESQ.
 5
                  General Counsel
                  HEATHER M. McPHEE, ESQ.
 6
                  Associate General Counsel
 7
 8
        WINSTON & STRAWN LLP
             Attorneys for the NATIONAL FOOTBALL LEAGUE
             PLAYERS ASSOCIATION
10
             200 Park Avenue
             New York, New York 10166
11
             BY: JEFFREY KESSLER, ESQ.
                  DAVID GREENSPAN, ESQ.
12
                   JONATHAN AMOONA, ESQ.
                  BENJAMIN SOKOLY, ESQ.
13
14
15
        PAUL, WEISS, RIFKIND, WHARTON & GARRISON LLP
             Lead investigators
             1285 Avenue of the Americas
16
             New York, New York 10019
17
             BY: LORIN L. REISNER, ESQ.
                   DOUGLAS M. BURNS, ESQ.
18
                  AMY E. GOLD, ESQ.
19
20
        GIBSON, DUNN & CRUTCHER LLP
21
             Attorneys for TOM BRADY
             1050 Connecticut Avenue, N.W.
22
             Washington, DC 20036
             BY: ANDREW TULUMELLO, ESQ.
23
24
```

(Appearances continued.)

Page 4

1	A P P E A R A N C E S (continued):
2	
3	YEE & DUBIN LLP
4	Agents for TOM BRADY 725 S. Figueroa Street, Suite 3085
5	Los Angeles, California 90017 BY: DONALD H. YEE, ESQ. STEPHEN L. DUBIN, ESQ.
6	SIEFHEN E. DODIN, ESQ.
7	
8	NFL PLAYERS ASSOCIATION WITNESSES:
9	THOMAS BRADY EDWARD SNYDER
10	TROY VINCENT THEODORE V. WELLS, JR., ESQ.
11	THEODORE V. WELLO, OR., ESQ.
12	
13	NFL MANAGEMENT COUNCIL WITNESSES:
14	ROBERT CALIGIURI DANIEL MARLOW
15	DUANE STEFFEY
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

					Page 5
1		I N I	D E X		
2					
3	OPENING STATEMENTS				PAGE
4	MR. KESSLER				7
5	MR. NASH				28
6					
7	REPLY				
8	MR. KESSLER				42
9					
10					
11	E	X A M I N	A T I O	N S	
12					
13	NFL PLAYERS ASSOCIATION WITNESSES				
14	Witness	Direct	Cross	Redirect	Recross
14 15	Witness TOM BRADY	Direct 47	Cross 100	Redirect 139	Recross 143
15	TOM BRADY	47	100		
15 16	TOM BRADY EDWARD SNYDER	47 150	100	139	143
15 16 17	TOM BRADY EDWARD SNYDER TROY VINCENT	47 150 227	100 194 251	139 255	143
15 16 17 18	TOM BRADY EDWARD SNYDER TROY VINCENT	47 150 227 261	100 194 251 321	139 255	143
15 16 17 18 19	TOM BRADY  EDWARD SNYDER  TROY VINCENT  THEODORE WELLS	47 150 227 261	100 194 251 321	139 255	143
15 16 17 18 19 20	TOM BRADY  EDWARD SNYDER  TROY VINCENT  THEODORE WELLS  NFL MANAGEMENT COUN	47 150 227 261 CIL WITNES	100 194 251 321 SES	139 255 340	143 259
15 16 17 18 19 20 21	TOM BRADY  EDWARD SNYDER  TROY VINCENT  THEODORE WELLS  NFL MANAGEMENT COUN	47 150 227 261  CIL WITNES  Direct	100 194 251 321 SES Cross	139 255 340 Redirect	143 259 <b>Recross</b>
15 16 17 18 19 20 21 22	TOM BRADY  EDWARD SNYDER  TROY VINCENT  THEODORE WELLS  NFL MANAGEMENT COUN  Witness  ROBERT CALIGIURI	47 150 227 261  CIL WITNES  Direct 345	100 194 251 321 SES Cross 373	139 255 340  Redirect 402	143 259 <b>Recross</b>

5 of 172 sheets Page 5 to 5 of 457 06/25/2015 03:43:11 PM

	Case 1:15-cy-05916-RMB-JCF Document	28-2	230 Filed 08/04/15 Page 6 of 177 OPENING STATEMENT/KESSLERPage 8
1	New York, New York	1	receiving the evidence and that's what we intend to
2	Tuesday, June 23, 2015	2	do today.
3	9:28 a.m.	3	I am compelled to say at the opening that as
4	* * *	4	you know, we had moved for you to recuse yourself.
5	COMMISSIONER GOODELL: Good morning and	5	We understand you have rejected that. We are
6	welcome. As you can see, we have a court reporter	6	proceeding on that basis without waiving our
7	here, so there will be a formal record of all of the	7	objection regarding that.
8	proceedings this morning. And we just ask you all	8	What I'm now going to turn to first is the
9	to speak up and try to avoid speaking across from	9	main evidence that's going to be presented to you
10	one another so we have the correct record.	10	today, and I know you've indicated that's what you
11	We all know why we are here this morning.	11	are particularly anxious to hear and what that
12	This is in response to an appeal filed by Tom Brady.	12	evidence is going to consist of. But to give you
13	I'm particularly interested in hearing anything Tom	13	context for this, I'm compelled to note one point at
14	has to say and I look forward to hearing directly	14	the outset.
15	from him. You also heard and got a letter from	15	I understand from communications that you
16	Gregg Levy on how we will proceed this morning so	16	have issued in this case that you have basically,
17	that hopefully all of those issues have been	17	you and Mr. Vincent together, whatever the
18	addressed and we will follow those procedures as	18	combination was, have relied upon the conclusions,
19	best we can.	19	the factual conclusions of the Wells report and you
20	I will obviously oversee this, but as you all	20	mentioned in your decision you did not independently
21	know, I am not an attorney. I am somebody that will	21	look at the notes and the investigators.
22	focus on the testimony and I will ask Gregg Levy to	22	You didn't have any witnesses for yourselves.
23	administer the proceedings this morning. Obviously	23	You are essentially relying on Wells' conclusions.
24	we will confer from time to time, and so I will ask	24	I'm compelled to note at the beginning that the
25	Gregg to take the lead on that front. I will	25	conclusion of the Wells report with respect to
	OPENING STATEMENT/KESSLERPage 7	1	OPENING STATEMENT/KESSLERPage 9
	OI LINING STATEMENT/INLOSELINT age 7		
1		1	-
1	interject, obviously, as I feel necessary.	1	Mr. Brady is that he was generally aware of
2	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to	2	Mr. Brady is that he was generally aware of something.
2	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?	2	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy,
2 3 4	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is	2 3 4	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to
2 3 4 5	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify	2 3 4 5	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to
2 3 4 5 6	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court	2 3 4 5 6	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct
2 3 4 5 6 7	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.	2 3 4 5 6 7	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the
2 3 4 5 6 7 8	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any	2 3 4 5 6 7 8	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being
2 3 4 5 6 7 8 9	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?	2 3 4 5 6 7 8 9	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.
2 3 4 5 6 7 8 9	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?  MR. KESSLER: I think we are ready to go	2 3 4 5 6 7 8 9	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.  It would be the equivalent if a player knew
2 3 4 5 6 7 8 9 10	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?  MR. KESSLER: I think we are ready to go unless you want us to do appearances.	2 3 4 5 6 7 8 9 10	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.  It would be the equivalent if a player knew or was generally aware that another player was
2 3 4 5 6 7 8 9 10 11	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?  MR. KESSLER: I think we are ready to go unless you want us to do appearances.  MR. LEVY: I don't think that's necessary.	2 3 4 5 6 7 8 9 10 11	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.  It would be the equivalent if a player knew or was generally aware that another player was taking steroids, okay, and had nothing to do with
2 3 4 5 6 7 8 9 10 11 12 13	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?  MR. KESSLER: I think we are ready to go unless you want us to do appearances.  MR. LEVY: I don't think that's necessary.  If you intend to give an opening?	2 3 4 5 6 7 8 9 10 11 12 13	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.  It would be the equivalent if a player knew or was generally aware that another player was taking steroids, okay, and had nothing to do with it, but had some general awareness of that. The
2 3 4 5 6 7 8 9 10 11 12 13	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?  MR. KESSLER: I think we are ready to go unless you want us to do appearances.  MR. LEVY: I don't think that's necessary.  If you intend to give an opening?  MR. KESSLER: Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.  It would be the equivalent if a player knew or was generally aware that another player was taking steroids, okay, and had nothing to do with it, but had some general awareness of that. The only person who was punished under the Steroid
2 3 4 5 6 7 8 9 10 11 12 13 14 15	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?  MR. KESSLER: I think we are ready to go unless you want us to do appearances.  MR. LEVY: I don't think that's necessary.  If you intend to give an opening?  MR. KESSLER: Yes.  MR. LEVY: Let's get started.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.  It would be the equivalent if a player knew or was generally aware that another player was taking steroids, okay, and had nothing to do with it, but had some general awareness of that. The only person who was punished under the Steroid Policy is the person who was taking the steroids.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?  MR. KESSLER: I think we are ready to go unless you want us to do appearances.  MR. LEVY: I don't think that's necessary.  If you intend to give an opening?  MR. KESSLER: Yes.  MR. LEVY: Let's get started.  MR. KESSLER: Yes. Good morning,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.  It would be the equivalent if a player knew or was generally aware that another player was taking steroids, okay, and had nothing to do with it, but had some general awareness of that. The only person who was punished under the Steroid Policy is the person who was taking the steroids. You don't get punished for being generally aware
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?  MR. KESSLER: I think we are ready to go unless you want us to do appearances.  MR. LEVY: I don't think that's necessary.  If you intend to give an opening?  MR. KESSLER: Yes.  MR. LEVY: Let's get started.  MR. KESSLER: Yes. Good morning,  Commissioner.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.  It would be the equivalent if a player knew or was generally aware that another player was taking steroids, okay, and had nothing to do with it, but had some general awareness of that. The only person who was punished under the Steroid Policy is the person who was taking the steroids. You don't get punished for being generally aware that somebody else is liable.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?  MR. KESSLER: I think we are ready to go unless you want us to do appearances.  MR. LEVY: I don't think that's necessary.  If you intend to give an opening?  MR. KESSLER: Yes.  MR. LEVY: Let's get started.  MR. KESSLER: Yes. Good morning,  Commissioner.  COMMISSIONER GOODELL: Good morning, Jeffrey.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.  It would be the equivalent if a player knew or was generally aware that another player was taking steroids, okay, and had nothing to do with it, but had some general awareness of that. The only person who was punished under the Steroid Policy is the person who was taking the steroids. You don't get punished for being generally aware that somebody else is liable.  If the League wants to change that, of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?  MR. KESSLER: I think we are ready to go unless you want us to do appearances.  MR. LEVY: I don't think that's necessary.  If you intend to give an opening?  MR. KESSLER: Yes.  MR. LEVY: Let's get started.  MR. KESSLER: Yes. Good morning,  Commissioner.  COMMISSIONER GOODELL: Good morning, Jeffrey.  MR. KESSLER: On behalf of Tom Brady and the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.  It would be the equivalent if a player knew or was generally aware that another player was taking steroids, okay, and had nothing to do with it, but had some general awareness of that. The only person who was punished under the Steroid Policy is the person who was taking the steroids. You don't get punished for being generally aware that somebody else is liable.  If the League wants to change that, of course, you could promulgate new policies or
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?  MR. KESSLER: I think we are ready to go unless you want us to do appearances.  MR. LEVY: I don't think that's necessary.  If you intend to give an opening?  MR. KESSLER: Yes.  MR. LEVY: Let's get started.  MR. KESSLER: Yes. Good morning,  Commissioner.  COMMISSIONER GOODELL: Good morning, Jeffrey.  MR. KESSLER: On behalf of Tom Brady and the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.  It would be the equivalent if a player knew or was generally aware that another player was taking steroids, okay, and had nothing to do with it, but had some general awareness of that. The only person who was punished under the Steroid Policy is the person who was taking the steroids. You don't get punished for being generally aware that somebody else is liable.  If the League wants to change that, of course, you could promulgate new policies or something else, but we really believe that, (A),
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?  MR. KESSLER: I think we are ready to go unless you want us to do appearances.  MR. LEVY: I don't think that's necessary.  If you intend to give an opening?  MR. KESSLER: Yes.  MR. LEVY: Let's get started.  MR. KESSLER: Yes. Good morning,  Commissioner.  COMMISSIONER GOODELL: Good morning, Jeffrey.  MR. KESSLER: On behalf of Tom Brady and the  NFLPA, we are happy to have an opportunity to present to you what we believe are very important,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.  It would be the equivalent if a player knew or was generally aware that another player was taking steroids, okay, and had nothing to do with it, but had some general awareness of that. The only person who was punished under the Steroid Policy is the person who was taking the steroids. You don't get punished for being generally aware that somebody else is liable.  If the League wants to change that, of course, you could promulgate new policies or something else, but we really believe that, (A), there is no such policy. It's not in the CBA. It's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?  MR. KESSLER: I think we are ready to go unless you want us to do appearances.  MR. LEVY: I don't think that's necessary.  If you intend to give an opening?  MR. KESSLER: Yes.  MR. LEVY: Let's get started.  MR. KESSLER: Yes. Good morning,  Commissioner.  COMMISSIONER GOODELL: Good morning, Jeffrey.  MR. KESSLER: On behalf of Tom Brady and the  NFLPA, we are happy to have an opportunity to present to you what we believe are very important, convincing and to some degree new grounds for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.  It would be the equivalent if a player knew or was generally aware that another player was taking steroids, okay, and had nothing to do with it, but had some general awareness of that. The only person who was punished under the Steroid Policy is the person who was taking the steroids. You don't get punished for being generally aware that somebody else is liable.  If the League wants to change that, of course, you could promulgate new policies or something else, but we really believe that, (A), there is no such policy. It's not in the CBA. It's not in the Personal Conduct Policy. It's not in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?  MR. KESSLER: I think we are ready to go unless you want us to do appearances.  MR. LEVY: I don't think that's necessary.  If you intend to give an opening?  MR. KESSLER: Yes.  MR. LEVY: Let's get started.  MR. KESSLER: Yes. Good morning,  Commissioner.  COMMISSIONER GOODELL: Good morning, Jeffrey.  MR. KESSLER: On behalf of Tom Brady and the  NFLPA, we are happy to have an opportunity to present to you what we believe are very important, convincing and to some degree new grounds for overturning the discipline that has been imposed.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.  It would be the equivalent if a player knew or was generally aware that another player was taking steroids, okay, and had nothing to do with it, but had some general awareness of that. The only person who was punished under the Steroid Policy is the person who was taking the steroids. You don't get punished for being generally aware that somebody else is liable.  If the League wants to change that, of course, you could promulgate new policies or something else, but we really believe that, (A), there is no such policy. It's not in the CBA. It's not in the Personal Conduct Policy. It's not in the it's not in the policy cited here. It's not
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	interject, obviously, as I feel necessary.  So Gregg, do you have anything you want to add?  MR. LEVY: The only thing I want to add is that counsel, whoever is speaking, identify themselves so the record is clear for the court reporter.  COMMISSIONER GOODELL: Do we have any objections that need to be made?  MR. KESSLER: I think we are ready to go unless you want us to do appearances.  MR. LEVY: I don't think that's necessary.  If you intend to give an opening?  MR. KESSLER: Yes.  MR. LEVY: Let's get started.  MR. KESSLER: Yes. Good morning,  Commissioner.  COMMISSIONER GOODELL: Good morning, Jeffrey.  MR. KESSLER: On behalf of Tom Brady and the  NFLPA, we are happy to have an opportunity to present to you what we believe are very important, convincing and to some degree new grounds for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Mr. Brady is that he was generally aware of something.  It is our position that there is no policy, no precedent, no notice that has ever been given to any player in the NFL that they could be subject to any type of discipline, whether it's conduct detrimental discipline or whether it is under the policy that has been invoked here for being generally aware of something.  It would be the equivalent if a player knew or was generally aware that another player was taking steroids, okay, and had nothing to do with it, but had some general awareness of that. The only person who was punished under the Steroid Policy is the person who was taking the steroids. You don't get punished for being generally aware that somebody else is liable.  If the League wants to change that, of course, you could promulgate new policies or something else, but we really believe that, (A), there is no such policy. It's not in the CBA. It's not in the Personal Conduct Policy. It's not in

# Case 1-15-cv-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 7 of 172 OPENING STATEMENT/KESSLER Page 12

7

The reason I'm making this point is the 2 reason we are about to tell you why we thing the 3 Wells report is wrong, we think the Wells report 4 doesn't answer or doesn't provide the basis for any discipline of the player.

1

5

6

7

8

9

10

11

12

13

14

15

16 17

18

19

20

21

22

23

24

25

5

6

7

8

9

10

11

12

13 14

15

16

17

18

19

20

22

23

24

This is wholly apart from what you did on the team, because on the team, the Wells report made very different findings, that it was more probable than not that something occurred and that's what they said and the team was responsible. But for the player, it was very, very different and I assume while Mr. Wells testifies, I assume that was a deliberate decision he made.

Had he been able to conclude that it was more probable than not that Mr. Brady participated in any kind of inappropriate activities, that's what he would have said in his findings. He did not say that. So before I get into the facts, I just felt compelled to make that context point, which we think is very important.

Now let me talk about the evidence we are going to present to you today. You are going to first hear from Tom Brady who you said you want to hear from. Tom will answer every question about this matter that I will ask him, that the NFL's

### OPENING STATEMENT/KESSLER Page 11

counsel will ask him and if you have any questions 1 or Mr. Levy has any questions, he's prepared to 3 answer anything relevant to this case, as, by the 4 way, he was with Mr. Wells.

And I note that Mr. Wells made it very clear both in his report and public statements that he was completely willing to answer any question that Ted Wells posed to him -- there has never been a refusal by Tom -- or anyone on Mr. Wells' team asked of him about that.

What Tom will tell you under oath is that he never asked anyone to deflate footballs below any kind of limit of the League. He never authorized anyone to do that and he's not aware or does he have any knowledge that anyone did that. He will tell you that truthfully, honestly. You will get a chance to look him in the eye and see what you think about that.

But we believe you are going to conclude when you hear this evidence that he is not somebody who was responsible for anything that did or did not happen at the Patriots' facility regarding the footballs.

And, in fact, he will testify and explain that his concern about footballs has to do with the

touch and feel of the football. You will remember 2 in 2006, there was a movement by all the quarterbacks to prepare their footballs. None of 3

that had to do with ball pressure, and he will 4 explain that. 5 6 And, in fact, it will be clear in the

8 player works in his glove to a right feel to soften 9 the leather to make it feel right for that 10 quarterback. He's never been particularly concerned 11 about pressure at all except in one game, and there 12 are -- things happen that create appearances that 13 are not correct, which was the Jets game in 2014.

evidence it had to do with the same way a baseball

14 And what happened in the Jets game, you will 15 hear is that he didn't even know there was an issue 16 of pressure. What happened, the balls felt really 17 big and fat and round to him like he had never felt 18 them before, okay.

19 And, yes, he complained at that time to 20 Mr. Jastremski, "What's wrong with the ball? 21 There's something wrong with the balls," and 22 ultimately found out the next day from 23 Mr. Jastremski -- and this is important -- that while Mr. Jastremski had tried to have the balls 24 25 set, it turns out at 13, which is well within the

## OPENING STATEMENT/KESSLER Page 13

League limit, they were registered at 16, which is 1 an astounding amount of pressure. 2

3 No one knows how they got to 16. That's what 4 he noticed. That's the only time he's ever even 5 thought about this issue of pressure. And that when 6 it came to the championship game, he had no idea 7 what was going on with the pressures of the balls. He felt nothing unusual. 8

9 He didn't feel a difference in the first half 10 to the second half on the balls because he didn't 11 know what had gone on was the balls had more air put 12 into them at the halftime, as you know. None of 13 that affects him. He didn't know of it. He wasn't 14 generally aware of it.

We think you are going to find him to be credible on this issue. And we urge you to ask him any questions that you have about that.

18 We also are going to then submit the 19 Declaration of Robert Kraft and Mr. Kraft would have been here to testify. You probably know he's in 20 21 Israel. So he was not able to be here to testify.

22 But Mr. Kraft wanted to put in evidence here 23 to indicate that his discussions with Tom about this 24 and what he believes about Tom's credibility in terms of his relationships over a very long period 25

15

16

# Case 1-15-cv-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 8 of 172 OPENING STATEMENT/KESSLER Page 16

- 1 of time and what happened here, so we hope you will
- 2 give weight and consideration to somebody who we
- know you trust his judgment very much and we know
- that no one knows Tom Brady, at least in the NFL 4
- 5 better than Robert Kraft, although I am sure there
- 6 are, obviously in his personal life, that know Tom
- 7 Brady better than Mr. Kraft does.

8

9

10

11

16

17

18

19

20

21

22

23

24

25

3

4

5

6

7

8

9

10 11

12

13

14

15

16

17

18

19

20

We are also going to put in a declaration from a forensic person who dealt with the issue of e-mail and texts. And you know from your decision that there was an aspect of the discipline. We 12 don't know how much -- and I will talk about them in a second -- that was exacerbated in the minds of 13

Mr. Vincent in his letter for a failure to cooperate 14

15 in providing these e-mails and texts.

First of all, you are going to hear from Tom that the only reason he didn't provide that is because his lawyers told him it wasn't proper or necessary and he just did what his lawyers and agents told him. He would have been happy to produce them.

Number two, there were no incriminating texts being withheld or e-mails, and there never have been any incriminating texts or e-mails. And now he has gone through and produces exactly what Ted Wells had

OPENING STATEMENT/KESSLER Page 15

asked for at the time that existed at the time and 1 2 exists today.

Whatever is there has been there and what does it show? It shows exactly what's in the Wells report. There was nothing being withheld. I mean, can you look at it and say, gee, why didn't he just produce it? He was following the advice of his lawyers and agents at the time. And part of the issue is that when Mr. Wells was asked to provide authority for why he was entitled to look at these e-mails and things, no authority involving players was ever cited.

And no one ever told his lawyer, agent or Mr. Brady that if he didn't provide it, that somehow that was going to be a lack of cooperation with a penalty. Now, we can ask why that wasn't done. It was there. But he certainly was never told that, that there was that type of obligation imposed upon him in that way. That's going to be provided by declaration from the forensic people who looked at that.

21 22 Then we are going to have Mr. Ted Snyder 23 testify who was the Dean of the Yale School of Management, who is one of the leading experts in statistical analysis in the world. He previously

1 was the Dean of the Chicago Business School. He is

2 one of the most respected academic people in this

3 country, and particularly his statistics expertise

is second to none. He worked with a team of people 4

to study the testing in the Wells report and what 5

that shows. 6

7 And what he is going to explain and this is 8 not, by the way, the fault of Mr. Wells, it's not

9 the fault of Exponent, okay, there was simply so

10 many unknowns about how the testing was done -- and

11 I am going to explain that in a second -- that

12 nobody is able to give an opinion as to whether

13 these balls were tampered with or not.

14 And the reason is as follows, and I will do 15 this in my very nonscientific way. We now all know 16 that there's something called the Ideal Gas Law.

17 And what that means is all balls deflate when they

18 go from hot weather to cold weather, to make it very

19 simple. That's one of the factors. So the Colts'

20 balls went to lower pressure. The Patriots' balls

21 went to lower pressure. That just happens. So the

22 mere fact that a ball is tested at lower pressure

23 doesn't tell you anything. It doesn't tell you

whether or not there's been any tampering. What you 24

25 have to come up with is, can you figure out whether

### OPENING STATEMENT/KESSLER Page 17

the evidence shows that natural causes don't explain 1

this in a way that a researcher, a tester would

3 agree, which is something called statistically

4 significant and it makes a difference?

5 What it turns out is there are so many

6 unknowns which are in the Wells report. The Wells

7 report will say we don't know the exact time that

8 the balls were tested. We don't know the exact

9 order in which the balls were tested. We don't know

10 exactly if Gauge A was done, the so-called logo

11 gauge or the non-logo gauge.

12 We don't know the temperature in the room at 13 the time the ball was tested, a whole variety of

14 factors, which would directly affect this result.

So we know there are unknowns. So what did the 15

Snyder team do? They said, okay, we are just going 16

17 to test the different scenarios.

18 What happens if you vary this which is an 19 unknown? What happens if you vary this which is an 20 unknown? And what they found is the result change 21 in such a way, in other words, the unknowns matter 22 that the only conclusion you could come to is that

23 you can't tell. You can't come to a statistically

24 significant result that is reliable here.

Now, why did this happen? And again, this is

Case 1-15-cv-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 9 of 172 OPENING STATEMENT/KESSLER Page 20

something, sometimes you learn about this. It is my belief that the League has never thought about the 3 Ideal Gas Law, frankly, before this thing. I dare say that there's not a referee in the NFL who knew 4 5 anything about it.

6

7

8

10

11

12

13

14

15

16 17

18

19

20

21

22

23

24 25

2

3

4

5

6

7

8

9

10 11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

I don't think there is anyone in Game Operations who knew anything about it. The original pressure rule goes back to 1920. I don't know when the Ideal Gas Law was first articulated, whether it was known or not because of that. No procedures are in place.

So think of drug testing. When we do drug testing, we have A samples and B samples. We have procedures for handling. We have chain of custody. We know exactly what should be tested. You can tell that somebody tests positive or tests negative. With respect to this issue of balls, there are no procedures to figure out if a lower pressure means it was tampered with or not and the result is none of this was recorded.

So no one wrote down what is the temperature in the room? That matters. No one wrote down, says, oh, were the Colts' balls, you know, inflated? Were the Colts' balls tested after the Patriots' balls were inflated or before? Because it matters

OPENING STATEMENT/KESSLER Page 19

on time. Time is a huge impact. 1

Why? Very simply, when you come back into the warm room, guess what happens? The balls heat back up. So you have to know every minute that you are in the room affects the balls heating back up, so the pressure is going back up. So these are the most essential things. So there were no procedures. So because of that, you can't tell.

And our view is, if this is something that needs to be approved and fixed, it should be, but you can't punish a player for that. You can't just assume, well, we didn't collect any of the proper information for this, so we are just going to assume that, (A), the player was generally aware, and (B), that something happened. In our view, this just isn't a basis for doing this.

Based on that testimony, we are also going to call Mr. Vincent who we understand we now could call about game day to talk about the procedures so you could see why this is missing and what maybe should have been done versus what was done.

And, again, I'm not ascribing blame to anyone. I don't think anyone knew about the Ideal Gas Law and knew this had to be accounted for. It's just the facts were the facts. We are going to have

1 Mr. Vincent who will testify about that.

2 We are also going have Mr. Wells testify, 3 because I think he will candidly admit -- because I

4 think Ted Wells is an honest person -- what he knew and what he didn't know and what he was able to look

5 at and what he wasn't able to look at and the 6

7 limitations of what he could find here with respect

8 to that. And so we will spend some time with 9

Mr. Wells.

18

19

20

21

22

23

24

25

10 Given my four-hour limitation and the need to 11 reserve time for cross-examination, I don't know 12 what the NFL is going to do with witnesses, whether they are going to call Exponent, which they said 13 they might, any of those witnesses, those are all 14 15 the witnesses I think we are going to be able to 16 call and still have enough time in order to have 17 cross-examination time at all.

So that's going to be the evidence you are going to hear from our side. And we think when you hear all of this, you are going to look at this if, as you said, with an open mind, and say, this is really not a basis to suspend Mr. Brady who, in every other way, obviously, has been one of the most exemplary citizens in the history of the NFL.

This is not somebody who has ever violated

OPENING STATEMENT/KESSLER Page 21

any NFL Policy. This is not somebody who has ever 1 done anything except do his best for his team and 3 for this League in every way imaginable. And we 4 don't believe this would be an appropriate basis for

5 this discipline. 6 Finally, briefly, I know Mr. Levy has said we 7 should put our legal arguments in briefs. I'm not

8 going to spend time on them much at all, but I do 9 want to note them here, I feel on this record before 10 it closes, I have to note what our legal arguments 11 are going to be. The first one I already mentioned 12 is generally aware is not a proper standard for 13 players. There is no precedent for it. There is no

14 notice for it. 15

And we believe that without notice, which is a very, very important principle here, one of the reasons it's such an important principle is because we know from Judge Doty's decision in Peterson, that at least after of now unless the Eighth Circuit overturns it, it is the established law that players have to have notice as to what the policies are that apply to them and what they are going to be held responsible for.

24 There is no way that there is any argument that Mr. Brady knew that there was some general 25

16

17

18

19

20

21

22

- awareness standard, before you get to anything else.
   But the notice argument has three layers. The first
   one is, "Even if the NFL policies applied to him
   that are at issue, there was no notice because of generally aware."
  - But let's assume generally aware was the standard. I will get by that. The second thing was the policy that was invoked, which is the integrity of the game policy as you know, is directed, and this is in evidence -- is directed only at owners, head coaches, general managers, the club. It's never given to the player. And, in fact, it's clear on its face who its given to.

You probably know, Commissioner, every year, the players are given certain policies. For example, they are given the Personal Conduct Policy. They are given team rules, okay. They even sign acknowledgements as to which policies they get. One policy they've never been given is this integrity of the game policy which talks about the balls.

That's where -- that's exactly what Mr. Wells cited. He said my authority under this policy, it clearly applied to the club. It clearly applied to club personnel, you know, people who work at the club like GMs and coaches and equipment room men,

OPENING STATEMENT/KESSLER Page 23

1 locker room people.

6

7

8

9

10

11

12

13

14

15

16 17

18

19

20

21

22

23

24

25

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

We don't dispute any of that. But it was not a player policy. And therefore, neither Mr. Brady nor anyone else had any knowledge of this. Now how do I know this is correct? I know this is correct because not only is there no mention of this, but what you will also find out is that in the past, you have never looked at players for this issue.

And I will give you an example. There was an incident last year involving the Minnesota Vikings, which I don't know if you are aware of or not, where the Minnesota Vikings heated the footballs during the game. And the League conducted an investigation and instructed the club -- first of all, they gave them a warning only. That was the only penalty that was imposed. And they said you can't do this. In fact, there is a specific rule about you can't -- you can't heat the footballs during the games.

Now, I would even have to agree as a player advocate that the player on that team, the quarterback probably was generally aware that the ball felt warmer in freezing cold, okay. There wasn't even an investigation of that quarterback, let alone any thought of discipline. And why? Because the integrity of the game policy didn't

1 apply to players.

We had another incident a few years ago
involving the New York Jets. So in the New York
Jets Case, it involved -- this is NFL Exhibit 73 -it involved Mr. Cortez Robinson, who is a club

6 employee of the Jets. Ironically, it's a Jets game

7 against the Patriots. This was on November 24,8 2009.

And in that game, it was found that he had
attempted to use unapproved equipment to prep the
kick balls, the K-balls prior to the kickoff. And,
in fact, he was disciplined by the Vice President of
Football Operations, Mr. Ron Hill, okay. And he
said because your attempt to use this could be

viewed as an attempt to gain a competitiveadvantage.

17 So what happened? He was suspended for the
18 rest of the season, the equipment person was. The
19 player, the kicker, wasn't even investigated. Why?
20 Because this policy doesn't apply to the player.
21 And, in fact, it's interesting because Mr. Hill was
22 the Vice President of Football Operations.

He's the right person to interpret this
policy. The Competitive Game Policy says if you
know of any violations, please tell, you know, the

OPENING STATEMENT/KESSLER Page 25

1 Vice President of Football Operations. Today that's

**2** Mr. Vincent in terms of that, I believe. They are

3 not people who discipline players ordinarily.

You know, we know under the ConductDetrimental Policy other people discipline players'

6 personal conduct. It's not the Vice President of

7 Game-Day Operations, because these have never been

8 directed at players. There is no history. And I

**9** can say to you without equivocation there has never

10 been a player in the history of the NFL who has been

11 suspended for anything having to do with equipment.

There is another player policy -- there isone player policy -- there's a player policy

**14** involving uniforms and things, which I will talk

**15** about, not that there is no policy. So

**16** Commissioner, this you may recognize. This is

17 called League Policies For Players (indicating).

18 This is what the players are given.

And it's interesting. It said "for players."
What is not in here is the competitive integrity
rule that Mr. Wells used in his report or anything
about that. So we looked through those League
Policies For Players and said is there anything that
could arguably be applicable to this?

And the only thing that we have been able to

11

24

- 1 find that could possibly apply to this is that there
- 2 is something called, on page 15 of this policy,
- 3 "Foreign Substances on Body Uniform." Has to do
- 4 with, like, receivers putting Stickum on their 5 gloves, things like that.

6 And then it says "Other Uniform Equipment Violations," okay. And it doesn't mention balls at 7

8 all, but I'm trying to be creative. Was there

9 anything that could possibly apply to this? And

10 what it specifically says under this thing is the

11 first offense will be a fine. That's what it says.

This is Mr. Brady's -- we don't believe it did anything, but this would be a first offense even

if it came under this policy, which we don't believe 14

15 this policy applies either, because there is nothing

here about the balls. And it's clear Mr. Wells 16

17 didn't use this policy; he used the other one. But 18 even this policy would have it.

And by the way, the fine is \$5,512 for the

first offense. That's it. That's the only notice

that a player has ever had about anything regarding 22 equipment in the players' policy in terms of that.

So we believe both under the established rule

24 of notice and what's called fair and consistent

25 treatment, I know that you may remember from bounty

## OPENING STATEMENT/KESSLER Page 27

- and from Ray Rice, in the cases, and I know you are 1
- not a lawyer, but generally, it's been held by all
- 3 of those arbitrators that fair and consistent
- 4 treatment is the rule.

12

13

19

20

21

23

5

10

11

14

17

18

20

21

And, in fact, I think you have acknowledged

this at various times yourself that there is a need 6

for consistency and notice and fairness. I don't 7

8 think you have yourself ever disputed notice,

9 fairness and consistency.

We don't think it could come under notice.

We don't think it could come under fairness. We

12 don't think it could come under consistency in terms

13 of these different issues.

So, finally, I would just note on the last

15 issue of delegation, I understand you've already

ruled, I guess, that Mr. Vincent's role was proper, 16

so I am not going to reargue that. I understand --

if that's not correct, you can advise me -- but I

19 understand from your two decisions you have already

ruled on that.

I note there's another delegation issue we

believe arises so I want to mention that, because it 22

23 is clear to us now after reading the letter

24 yesterday that there was no independent fact-finding

25 by either Mr. Vincent or you in imposing the initial 1 discipline. We think that also, unfortunately,

2 raises another improper delegation issue.

3 We don't think under the CBA paragraph 15 of

the player contract or Article 46 or, frankly, even 4

under the NFL Constitution that delegating the 5

fact-finding to someone outside the League and just 6

7 having the League or Mr. Vincent, either you or

8 Mr. Vincent decide the penalty based on someone

9 else's facts was appropriate under, at least, the

10 legal system as we understand it there.

So I'm not going to say any more about it.

12 But I do want to note it and we will address that

13 further in our post-hearing briefs. Thank you for

14 bearing with me in doing this. I probably used more

15 time than I wanted to given my limitations, but

16 thank you very much.

17 MR. NASH: I will try to be just as brief and 18 maybe even briefer. This is a procedure under the

19 Collective Bargaining Agreement, Commissioner, as

20 you know. It's a matter that obviously is very

21 serious. And starting with the delegation point

22 that Jeffrey just said, this also is a fact-finding

23 proceeding today.

You are here to hear evidence, as you just

25 said. And so following this hearing, it will be up

### OPENING STATEMENT/NASH Page 29

to you to make a judgment under the CBA regarding 1

two issues. The first is whether Mr. Brady

3 conducted conduct detrimental or engaged in conduct

4 detrimental; and the second, assuming you make that

5 conclusion, what is the appropriate discipline?

6 Now, as to the first point, I'm not sure what

7 Mr. Kessler was saying about fact-finding. But I

8 will say that under the CBA, there is no question

9 that you can rely on the independent investigator in

10 making the judgment, your judgment as to whether

11 Mr. Brady engaged in conduct detrimental.

12 In fact, this is something that you and your

13 predecessors have always done. It would not be

14 reasonable to suggest that you would be the person

15 to interview every witness or to look at every

16 document every time an issue of potential conduct

detrimental arose.

18 This case involves an investigation that I 19 think was as thorough as any that has ever been

20 done. It was done by an investigator, Mr. Wells and

21 his colleagues, who is a person of unquestioned

22 integrity. He interviewed over 66 witnesses. He

23 reviewed documents.

> And importantly, he gave Mr. Brady and his counsel as well as the Patriots and their counsel

24

25

## Case 1:15-cy-05916-RMB-JCF Document 28-230 Filed 08/04/15 Page 12 of 172 age 32

- 1 every opportunity to provide evidence, including
- 2 some of the arguments that you heard today, and in
- fact considered these. Everything I think that you
- 4 just heard Mr. Kessler describe about the evidence
- that you are going to hear today are things that 5
- 6 were considered in the report and they are addressed
- 7 in the report.

8 So we are not going to put on any evidence, 9 any particular evidence beyond the report today, 10 except we may have some witnesses in rebuttal and we 11 will see what they have to say. But I will say just

12 generally that all of these points that were made have been made and have been considered in the 13

14 report.

15

16 17

18

19

20

21

22

23

24

25

12

13

14

15

21

22

23

24

One other point that I think is important, and there has been a lot that has been said about the Wells report, but as I think you are aware and Mr. Wells is here to tell you, this was truly an independent investigation. He was not given a task to find any particular conclusion, nor would he have agreed to do the investigation under those circumstances.

His investigation, as he will tell you, was conducted to find the truth, to find the facts and that's exactly what he did. And he did it in a

### **OPENING STATEMENT/NASHPage 31**

- thorough manner and under the Collective Bargaining 1
- 2 Agreement, you are entitled clearly to rely on that
- 3 report as you are entitled and should rely on
- 4 whatever it is that they want to present here today.
- 5 Most importantly, it will be up to you to
- 6 listen to Mr. Brady and consider what he has to say.
- 7 And then it's your judgment. Under the Collective
- 8 Bargaining Agreement, it's your judgment. And as
- 9 far as the argument about standard of proof or
- burden of proof, this is not a criminal trial. It 10
- 11 is not a civil trial.

This is, as I said, a proceeding under the Collective Bargaining Agreement regarding a very important subject, conduct detrimental, the integrity of the game. I don't think there can be

16 any reasonable dispute that the underlying issues

17 here involving the integrity of the game. The

conduct of the Patriots in this matter, as I think 18

19 everyone is aware, called into question the

20 integrity of the game.

> And under the CBA, you are obviously authorized and it is your responsibility to address that. Whether it's more probable than not, it's your judgment to make, listening to Mr. Brady,

> considering all of the evidence that is in the Wells

- 1 report whether you, in your discretion, believe that
- 2 he engaged in conduct detrimental and it's your
- 3 judgment alone under the Collective Bargaining
- 4 Agreement.

5 As far as the arguments whether Mr. Brady was

under notice, I think Mr. Kessler is conflating what 6

7 was done in the Wells report with your ultimate

8 judgment on conduct detrimental. And most

9 importantly, I think there's a lot of evidence that

10 you didn't hear about in what Mr. Kessler had to 11

say.

18

19

20

21

22

23

24

25

12 I don't have any doubt that you will hear 13 Mr. Brady come in and tell you, I think, probably

what he told Mr. Wells, the things that Mr. Kessler 14

15 said. But in considering his testimony, I think you

16 have to consider it in the context of the other

17 evidence that's in the report.

> And I would suggest that the other evidence of Mr. Brady's involvement and the violation that occurred here, the conduct detrimental that occurred here is substantial. The evidence in the Wells report is not as was said in the notice of appeal, purely speculative or just circumstantial.

As the report itself says, the conclusions are based on substantial evidence. That includes

### **OPENING STATEMENT/NASHPage 33**

- the basic evidence that there is no -- I think there 1
- is no dispute that at the halftime of the AFC
- 3 Championship Game, the footballs of the Patriots
- were deflated and they were deflated more than the 4
- 5 Colts' footballs. I don't think there is any
- 6 dispute about that.

7 There is going to be evidence, it sounds like

8 today, from experts about what was the cause of

9 that? But I would submit, Commissioner, that those

10 arguments and those very points are all documented

11 in the report considered by Mr. Wells and the two

12 experts who he retained.

13 And on that point, I should say and he will 14 tell you that Mr. Wells wanted to find any 15 explanation other than conduct detrimental or a violation of the rules for what happened at the 16 17 game. That's why he retained an expert. The expert was tasked to look into all of this.

19 In addition, Mr. Wells retained a second 20 expert to also check the work of the first expert.

21 Now, I'm not going to go through all the details of

22 the Ideal Gas Law, but what I can say and the

23 experts are all here that from Exponent, Mr. Marlow

24 from Princeton, who is an expert in physics, what

they will tell you is that they've considered all of 25

# Case 1:15-cv-05916-RMB-JCF Document 48-230 Filed 08/04/15 Page 13 of 172

1

5

- 1 these points, the timing point that Mr. Kessler
- raised, the change in temperature, and their basic
- conclusion that, for the Patriots' balls, those
- 4 factors could not explain the level of deflation in
- 5 the balls, and that the more reasonable conclusion
- 6 was human intervention.

The human intervention part is something that

- 8 wasn't addressed at all just now by Mr. Kessler. But there, again, the report contains substantial
- 10 evidence that the deflation of the footballs was
- 11 caused by human intervention. It's documented in
- 12 the report.

7

- 13 Mr. McNally broke protocol. He disappeared
- 14 from the locker room. Walt Anderson and the others
- 15 interviewed in the report all were unequivocal that
- it was something that had never been done before by 16 17 Mr. McNally and shouldn't have been done.
- 18 There is also in dispute at first he didn't
- 19 say so, but ultimately Mr. McNally had to agree that
- 20 he went into the bathroom with the footballs,
- 21 clearly a breach of protocol. So there was
- 22 substantial evidence of human intervention.
- 23 And then on top of all of that are the texts
- 24 that are documented in the report of between
- 25 Mr. McNally and Mr. Jastremski. And by the way, I

### **OPENING STATEMENT/NASHPage 35**

- think I heard some discussion that Mr. Brady was 1
- either not aware of the inflation rules that applied
- 3 to footballs or his only concern was the surface or
- the grip. 4
- 5 I think there's evidence in the report and I
- 6 think he would even say here today that he certainly
- 7 was aware that there was a minimum inflation level.
- 8 He knows what the rules are. This idea that he
- 9 didn't have notice that somebody purposely deflated
- a football after the officials checked it was 10
- 11 somehow not a violation of the rules, clearly he
- 12 knew about that.

13

17

- He's on public record as saying that he
- 14 prefers the footballs to be inflated at the lower
- end. And he's made other statements to that effect. 15
- So there is no question that he was aware of that. 16
  - And I don't think you can reasonably accept the argument that you just heard that, because there
- 18
- 19 is not a specific rule or document that would tell a
- player that if you are involved in an effort to 20
- cause footballs to be deflated below the rules that 21
- 22 somehow you are not subject to discipline. On that
- 23 point, there is no question that Mr. Brady was fully
- on notice of your authority to address conduct
- detrimental and the integrity of the game. It's in 25

- his player contract. It's in his CBA. He knows
- 2 very well. It's in paragraph 15 of his player
- contract that he is subject to suspension for 3
- conduct detrimental. 4
  - Mr. Kessler talked about other cases
- 6 including the Rice case. But as Judge Jones said in
- 7 the Rice case, your authority to address this, these
- 8 kinds of situations is broad. It's the agreement
- 9 between the League and the Players Association.
- 10 And the Players Association and Mr. Brady
- 11 himself, all players are under notice that if they
- 12 engage in conduct detrimental, that you reasonably
- 13 conclude is conduct detrimental, that they are
- subject to a suspension. 14
- 15 Again, this is not a minor, I would submit
- 16 the report does not show some minor rules violation,
- 17 some minor -- this is not and we will address all
- 18 this in our brief, but the Vikings' case that was
- 19 talked about, that was a ball boy who warmed up the
- 20 ball and was not aware of the rule.
  - That doesn't, I think, provide any defense
- 22 here for Mr. Brady and it certainly doesn't provide
- 23 any basis to ignore all of the other evidence in the
- 24 report.

21

25

### On the argument about the failure to

### **OPENING STATEMENT/NASHPage 37**

- cooperate, as you know, during the investigation, 1
- Mr. Brady was asked to provide what the report
- 3 describes as, "critical evidence." There is no
- dispute. I don't think Jeffrey just disputed that
- he did not do that. I think the argument I heard is
- that he didn't do it because his lawyer told him not
- to do it. I don't think that would be a basis to 7
- 8 excuse a failure to cooperate.
- 9 I don't think you will hear any argument
- 10 that -- reasonable argument that Mr. Brady didn't
- 11 know failing to cooperate in an investigation like
- 12 this could subject him to discipline. And I think
- 13 it's a critical point when you consider all of the
- 14 evidence in the report itself, because let's be
- clear what evidence we are talking about. 15
- 16 As the report documents, and I didn't hear 17 whether Mr. Brady is going to testify about this,
- but as you know, following the AFC Championship 18
- 19 Game, really for the first time, Mr. Brady all of
- 20 the sudden had all these contacts by phone, by text
- 21 and in person with Mr. Jastremski, the person he
- 22 relied on to ensure that the balls that he used in
- 23 the game were to his liking.

He was interviewed about this. It's all documented in the report. There are numerous calls.

24

# Case 1:15-cy-05916-RMB-JCF Document 48-230 Filed 08/04/15 Page 14 of 172 April 172 Page 14 of 172 April 172 Page 18 Page 18 Page 40

1

20

21

22

23

24

25

And the explanations that he provided and the witnesses provided, I would submit, you should consider as they are documented in the report.

1

2

3

4

5

6

7

8

9

10

11

12

13

14 15

16

17

18

19

20

21

22

23

24

25

7

8

9

10 11

12

13

14

15

16

17

18

19

And I don't think you are going to hear any evidence today to come to any conclusion other than it would be simply implausible, implausible to accept the idea that Mr. Brady didn't have any knowledge about either Mr. Jastremski's activities or Mr. McNally's activities.

It would not be plausible and I think, again, putting aside arguments about more probable than not, the bullet question I think in this proceeding is for you to make in terms of your judgment as to whether you believe after listening to Mr. Brady he engaged in conduct detrimental. He would submit that the evidence in the report on this point is substantial.

I would also submit that the refusal to provide the information that Mr. Wells asked for that bore directly on this point not only is absolutely a failure to cooperate, but it is reasonable to draw the inference that the failure to do so, his failure to provide that information suggests that there were -- there was probative evidence in the texts.

### **OPENING STATEMENT/NASHPage 39**

1 Now, as far as this last-minute, the Declaration from Mr. Maryman, I think we addressed

3 this in the letter and I don't spend a lot of time

4 on it, I'm actually quite puzzled by the

5 declaration. I don't see how it can help

6 Mr. Brady's arguments here.

First of all, there's a discussion about the e-mails. What the report documents is that the information that was most critical to Mr. Wells and the investigators are the texts. I think the players, like Mr. Brady, communicated by text far more than they do by e-mail.

We were not provided with the context of any texts during the relevant period. In fact, and we will hear from Mr. Brady, I suppose today about this, in fact, if you look at this expert declaration that was just submitted, there is a large gap in terms of Mr. Brady's phone. There are no text records for the relevant period.

20 I think the assumption could be they were 21 somehow either destroyed. But even if that's not 22 known, there is certainly no explanation as to why 23 if Mr. Brady had cooperated when he was asked, if he had cooperated in a timely manner, that would have been available.

2 declaration, and we can give you more in our brief 3 about this, it appears that the phone was -- the new phone became available on March 6th, the date of his 4 interview with Mr. Wells. 5 6 All of this, all of this, Commissioner, while 7 not a direct statement from Mr. Kessler, and not a 8 direct text telling somebody please deflate a 9 football below a certain amount, all of this is 10 highly probative and as the report says, substantial 11 evidence, substantial evidence of his knowledge of a 12 very serious matter, of a very serious matter. 13 You, as the Commissioner of the NFL, who is

And interestingly, according to the

14 responsible for protecting the integrity of the 15 game, can consider not just what you just heard from 16 Mr. Kessler, not just a denial from Mr. Brady, but 17 you can weigh that in the context of all of this 18 evidence. And I would submit at the end of the 19 proceeding, it's going to be your judgment.

It's your judgment, Commissioner. You know that as to what the appropriate finding should be. What I can say with quite certainty, it is, you are plainly authorized under the CBA to make that judgment. To the extent that you decide to affirm the discipline, the evidence in the Wells report is

## **OPENING STATEMENT/NASHPage 41**

substantial and provides a more-than-adequate basis 1 to affirm the discipline. 2

3 And, finally, it is certainly fair and consistent. The fact that -- the argument that 4 5 because no player before has engaged in something like this in this context, we are talking about the 6 7 AFC Championship Game.

8 Again, we are not talking about a ball boy 9 heating up the ball who doesn't know the rules in 10 Minnesota. When you read the Wells report, we are 11 talking about much, much more. And in this context, 12 in order for him to convince you that the discipline 13 is not either fair or consistent, I would suggest 14 that it's his burden. He would have to show you 15 that there was some similar incident.

And by "similar," it has to be the same 17 overall facts. And on that point, one other thing about the Wells report that I think needs to be 18 emphasized, you can parse various parts as 20 Mr. Kessler did; he didn't address a lot of the evidence in the report, but you can parse things.

22 But the Wells report makes clear that the 23 conclusions are based on substantial evidence and 24 they are based on the totality of the evidence. It's not just based on the scientific report. It's 25

16

19

# Case 1:15-cy-05916-RMB-JCF- Document 28-230 Filed 08/04/15- Page 15 of 172ge 44

14

15

16

17

18

19

20

21

22

23

24

25

13

14

15

16

17

18

not just based on one text or one phone call. It'sbased on all of the evidence.

3

4

5

6

7

8

9

10

11

12

13

14

15

16 17

18

19

20

21

22

23

24

25

5

6

7

8

9

10 11

12

13

14

15

16

17

18

19

20

21

22

23

25

Commissioner, I would submit that's the judgment, that's the way you should approach the judgment, is you listen to the evidence. I would submit that when you listen to the evidence today and when you weigh that against all of the evidence that we are going to put into the record including the Wells report, it is certainly within your discretion to conclude that Tom Brady engaged in conduct detrimental, serious conduct detrimental, and that the discipline imposed was fair and appropriate.

MR. KESSLER: I would like to use five minutes of my very valuable time just to respond to a few points that Mr. Nash raised. The first one is, he emphasized at the end, he kept using the word "the player engaged," "the player engaged in conduct detrimental." No player has engaged in similar conduct.

I'm sorry, but Mr. Nash is wrong. Mr. Wells did not make any finding and there is no finding that Mr. Brady engaged in anything other than being generally aware of somebody else's conduct. He has no response to that. He can point to nothing. He

### REPLY/KESSLER Page 43

can brief this afterwards. And I'm saying right now
he will find no precedent for generally aware. So
the whole premises of his argument of "engaged" is
just not what the Wells report found.

Number 2, on the e-mails, he seems to not understand the Maryman Declaration. So let me just explain it a little bit. I didn't think I had to. It says, so, for the phone texts, the phone doesn't exist. It didn't exist at the time. In other words, Mr. Brady's practice, you will hear, because of living the life he lives as a celebrity, for better or worse, he gets free telephones.

And based on that, he gets rid of his phones constantly because he's afraid of in this world of social media what would happen if somebody got his private information with himself and his wife and other things and what that would become. So that has been his practice for years and years.

So what did we provide? We provided all the phone logs that show the text messages. I didn't even know this, but your phone bills, you can actually get the records, show all the text messages. And what does that show? It shows all the text messages from the relevant time match up to all the texts to Mr. Jastremski, okay. There are

1 none to Mr. McNally, which is consistent with

2 Mr. Brady's testimony that he didn't really know

3 Mr. McNally in any material way at all.

4 So there are no texts to Mr. McNally's

5 number. The Jastremski texts match up and the

**6** Schoenfeld texts match up. So everything that was a

7 text there was basically in the Wells report. So

8 for Mr. Nash to come and say you should assume that

**9** there are bad texts and Mr. Brady's going to testify

10 there were no such texts and the phone records show

11 there were no such texts, there is no way you can

12 draw that adverse inference about him. And it's not

13 right for Mr. Nash to suggest it.

With respect to the issue of cooperation, as Mr. Nash knows, and as I believe you know, the only -- assuming there was a lack of cooperation for the moment, and we believe why we think you should not find that in this case because there was no policy that said it, he wasn't told about it, assuming you say I think this was a lack of cooperation, here, we do have a history of very

So Brett Favre in an incident you may remember involving sexting on his phone, he was found to have refused to cooperate in the

### REPLY/KESSLER Page 45

1 investigation and he was fined \$50,000.

2 When that came up in bounty, you will

comparable behavior in Mr. Nash's word.

3 remember Mr. Hargrove was fined -- was suspended;

4 I'm sorry -- for refusing to cooperate in the

5 investigation. Commissioner Tagliabue said the

6 following with respect to that: He reversed

7 Mr. Hargrove's suspension and he said, "Although not

8 entirely comparable to the present matter," talking

9 about the Favre situation for Mr. Hargrove, "This

10 illustrates NFL's practice of fining, not

11 suspending, players for serious cooperation

Ti Suspending, players for serious cooperat

12 violations of this type."

That's the history. It's been a fine. So if Mr. Nash had said I still think it's cooperation, it should be a fine, that would be one thing. But there is no history in the light of bounty, I don't see any way under fair and consistent a suspension would be imposed just on this cooperation issue.

And finally, on the issue Mr. Nash said,
well, it's not a big deal that it's not in any
policy or notice. Mr. Brady should just know that
this, he would be punished for this. Well, that's
not what the cases say.

So in Peterson, Judge Doty said the newpolicy couldn't be imposed instead of the old policy

#### Case 1:15-cy-05916-RMB-JCF, Document 48-230 Filed 08/0/1/15, Rage 16 of 172 Page 48 1 because the player had no notice of it even though 1 Patriots to during your career? 2 2 the player surely knew from the old policy that A. Four. 3 domestic violence was prohibited, but it had to do 3 Q. Now, how many did you go to? with what the punishment can be and that's what Α. 4 4 Q. I know you are focused on how many did you 5 Judge Doty held. And right now that's binding law 5 6 on the NFL League. win? 6 7 7 It says, Commissioner Tagliabue in bounty, Α. Four. 8 8 Q. Okay. Has anybody won anymore? specifically said that in the case of bounty, the 9 9 A. Same, Montana. League's history was to hold the clubs responsible, 10 not the players, and therefore, he found that as a 10 MR. KESSLER: That's all I am going to do on 11 reason to overturn the discipline there. And he 11 Mr. Brady's background, which I think is well-known 12 said because that was the history. 12 to the Commissioner regarding this. 13 That's the exact history here. That's why 13 COMMISSIONER GOODELL: Sure. 14 the conduct detrimental doesn't apply. This is the 14 Q. Mr. Brady, I'm going to direct all of your 15 competitive integrity policy which is directed at 15 testimony now to the issue of game balls and the 16 holding the clubs responsible for this. Now, that 16 incidents that are in the Wells report and all of 17 can change. It can promulgate a new policy, but it 17 that information. 18 matters. It's simply not correct legally that it 18 So let me first ask you, sir, and if you 19 doesn't matter. 19 would just explain to the Commissioner more than me, 20 20 who selects the footballs you use in the NFL games? And I know Mr. Levy will give you legal 21 advice on this based on the caselaw. But I just 21 A. I do. 22 22 believe when you get that advice and look at the Q. Okay. And could you explain to the 23 evidence, you are going to conclude that notice, 23 Commissioner how do you decide what balls you would 24 fairness and consistency matters. So thank you very 24 like to use, what factors, what process do you go 25 25 much for that extra time. through? If you could explain that to him. DIRECT/BRADY/KESSLER Page 47 DIRECT/BRADY/KESSLER Page 49 1 1 MR. LEVY: Why don't you call your first A. Well, we have a, I would say in a very 2 witness. 2 general situation, I have played a lot of games and 3 MR. KESSLER: I will. I will now call Tom 3 we have different practices, I think, depending 4 Brady to the stand, please. 4 on -- depending on the game. I think every THOMAS BRADY, called as a witness, having 5 5 quarterback likes the balls a certain way. And it really has to do with feel. It really has to do 6 been first duly sworn by a Notary Public of the 6 7 State of New York, was examined and testified as 7 with comfort of gripping the ball. And I think we 8 follows: 8 go through pretty, you know, extensive, rigorous 9 DIRECT EXAMINATION BY 9 process to take what may be a brand new football and 10 MR. KESSLER: 10 try to break it in as quickly as possible so it can 11 Q. Good morning, Mr. Brady. Could you please 11 be available to be one of the game balls that you 12 just state your name for the record so we have that. 12 use on game day. 13 13 A. Thomas Edward Patrick Brady, Jr. So what typically happens is over the course 14 Q. Thank you. And what college did you attend? 14 of the week, in our situation, John would break the 15 A. University of Michigan. 15 balls in. 16 **Q.** And what year were you drafted into the NFL? 16 COMMISSIONER GOODELL: John who? 17 A. 2000. 17 THE WITNESS: Jastremski. 18 Q. And by which team? 18 A. He would break in the last three or four 19 **New England Patriots.** 19 years, I don't know however long it's been, he has 20 Q. Okay. And how many seasons have you played 20 been the one that I've dealt with that has been 21 in the NFL? 21 responsible for prepping them so that I can go in A. 15. 22 22 before the game and choose what I like and what we

23

24

25

are going to play with on that particular day.

not, you know, I grab the ball. I feel with my

And it's a very feel-oriented process. It's

23

24

Α.

Yes.

**Q.** And have they all been with the Patriots?

And how many Super Bowls have you led the

#### Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 17 of 172 Page 52 hands. If I approve it, you know, I flip it to the field that I play with. So once I pick the ball 1 2 John, you know, to sort through however many he may out, then I don't want anything other than that ball make up for the game. There could be 30 balls. 3 to be the one that I am on the field playing with. There could be 40 balls. I could select 12. I may 4 Q. Now I am going to ask you now, I am going to select 24 depending if we think we are going to use 5 turn to the October 2014 Jets game. 6 additional balls. So I think it's really a process MR. KESSLER: And to give you, Commissioner, for me to -- I don't even really think about. Is it 7

8

9

10

11

12

13

14

15

a part of that 2006 that we could break them in. But for me, it's always been about how does the ball feel in my hand? Can I properly grip it and, you know, is this, what I feel is going to be the best to go out there and perform on the field with? So that's basically it.

important to me? Absolutely. I think the ball is

important to every quarterback, which is why we are

16 **Q.** Mr. Brady, did the issue of inflation level 17 ever come up as a factor when you are choosing your 18 balls or deciding upon the balls; is that something 19 you think about at that time?

20 A. Never. 21 Q. Okay. Do you discuss the inflation level of 22 the balls with Mr. Jastremski during the process

23 when you are selecting the balls? 24 A. Never.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

25 Q. Okay. Now, once you approve the footballs

### DIRECT/BRADY/KESSLER Page 51

for the game, when is the next time you come into

contact with the balls? 2 3 A. On the field.

4 Q. During your whole career now, I want to be 5 very clear about this, I am asking during your whole 6 career, have you ever asked anyone from the Patriots 7 to alter the footballs in any way after you've 8 approved them?

9 A. No.

10 Q. Okay. Now, have you ever specifically, so 11 again, very specific question, have you ever told 12 anyone on the Patriots after you've given to them 13 that they should change the inflation level of the 14 footballs after you approved them or do anything 15 about the inflation level after you approved them?

16 A. No.

17 Q. Now, what would be your reaction if 18 Mr. Jastremski or anyone else in the Patriots was 19 doing something to the footballs after you've 20 approved it? How would you feel about that? 21 A. I would disapprove of that.

22 Q. Why? Why would it matter to you? 23

A. Because I go through, like I said, this 24 extensive process to pick out the balls for the

25 game, and that's the ball ultimately that I want on context, this is the game about which this various e-mail traffic and discussing the Jets' ball that's in the Wells report. That's the one we are focusing on right now. Q. Now, what do you recall was your reaction to the footballs when you felt them in the October 16, 2014, game against the Jets? Was there anything different? What happened? A. Before the game or after the game?

16 **Q.** Well, first, yeah, let's go before the game. 17 Was there anything different?

18 A. Well, we chose a different process. So I 19 would say we have a pretty standard process for how 20 we break the ball in or how John breaks the balls 21 in. It's a very rigorous process. It's probably,

22 you spend a significant amount of time on each ball. 23 COMMISSIONER GOODELL: What does he do, Tom?

DIRECT/BRADY/KESSLER Page 53

24 Do you mind? 25

MR. KESSLER: Sure.

1 THE WITNESS: Well, I don't know all the 2 specifics. I know there's sandpaper. I know

3 there's dirt. I know there's a leather conditioner

4 that we use that I got from my old college coach 5 that we use on the ball quite a bit.

6 And we take leather receiving gloves that the

7 receivers use and we try to get the tack from the 8 leather on the receiver gloves and really rub that

9 into the -- (indicating) -- each of these balls have 10 nubs on them. Sometimes if the ball is too nubby, I

11 like to sand down the nubs. I don't like it when

12 there's no nub because then there's no traction on

13 the ball. 14 So you want your hand to be able to grip the

15 ball, but you don't want it so flat that you can't. So they try to, basically, moisten the ball with the

16 17 leather conditioner. And it's -- it's -- that has

been a very helpful way to break in a new ball 18

19 quickly, not that there is any way to break in 20 quickly.

21 I think even before John, John Jastremski 22 took over that process, which like I said, it's a 23 very extensive process, so I'm not sure how the

24 other equipment managers do it, but a lot of players would just basically use the ball in practice until

17 of 172 sheets Page 50 to 53 of 457 06/25/2015 03:43:11 PM

#### 1 it broke in enough that they could -- that they 1 COMMISSIONER GOODELL: In the Jets game? 2 2 would want to use it in the game. THE WITNESS: In the Jets game. 3 3 Q. Tell the Commissioner what did you feel Sometimes that may take two weeks, three different in the football during the Jets game? 4 weeks, four weeks, it takes a long time to break in 4 5 a football if you are just playing catch with it. 5 A. Well, the ball was very hard, so it didn't 6 feel like the ball was the way I approved them At some times in my career, I have seen ball boys 6 7 manually throwing the ball back and forth to one 7 before the game. And for one reason or another, I 8 8 another, I mean, literally hundreds of times to try don't know what happened to the balls. 9 9 COMMISSIONER GOODELL: But they were the same to break the ball in. So to use that conditioner, 10 it's been a significant way to kind of speed up the 10 balls, to your knowledge? 11 11 THE WITNESS: I have no idea. To my process. 12 COMMISSIONER GOODELL: You said there were 12 knowledge, yes, they should have been. 13 different processes? 13 **Q.** And did you react to that with anybody on the 14 THE WITNESS: Yeah. 14 team? 15 15 COMMISSIONER GOODELL: And you said you did A. Yes. Can I just say one other thing? Q. Sure. 16 something different at the Jets game? 16 17 THE WITNESS: Yeah. 17 A. So when you use -- just to be clear, when I 18 COMMISSIONER GOODELL: What was the 18 say "soft" and "hard," a lot of times the only thing 19 difference, I guess just so I understand, and how 19 I have ever felt a football when I say that is the 20 20 many different processes did you have? I understand softness of the leather. So when I say I'm trying 21 there are multiple steps that you just described. 21 to break in the ball, I'm breaking in the -- I'm 22 22 THE WITNESS: There was really, we basically making the laces softer, I'm making the leather 23 prepared them one way up until that particular game. 23 softer, like you refer to it like a baseball mitt. 24 24 We played in a game late, not in 2014, but in 2013. So when we use those balls in the Jet game, 25 25 It may have been the last game of the year. We they were balls that were really old balls so the DIRECT/BRADY/KESSLER Page 55 DIRECT/BRADY/KESSLER Page 57 1 played the Buffalo Bills and there was a torrential 1 leather was soft. Does that make sense? The leather was soft. The ball wasn't soft. The 2 downpour and we used a lot of the Lexol leather 3 3 conditioner on the ball. And John, not knowing leather felt like I could grip it. 4 that, what he does always before the game with the 4 Q. Now I would like you to turn to, so you felt 5 Lexol, and it turns out that when the Lexol is 5 the ball, but you didn't like it. Who did you 6 6 exposed to the -- to the wet weather, the ball gets express your feelings to during the game? 7 very oily and it makes it nearly impossible to grip. 7 A. To John. It was over the course of the first 8 So when we went into that particular Jet 8 half that, you know, I was just, I was very pissed off. I was very pissed off at -- partly because I 9 game, there was going to be inclement weather and 9 10 I -- we came to I think a mutual decision. And he 10 felt like I got talked into using these balls that 11 said, believe me, we are going to use a lot of these 11 we had done, like I said, a different protocol, and 12 old footballs that are from training camp which, I 12 I felt like it didn't work out very well. 13 don't know, four or five weeks, six weeks ago that 13 **Q.** Mr. Brady, during the course of a game, is it 14 we would never typically use in a game because they 14 fair to say you are somebody who gets fired up and 15 don't have any Lexol on them. 15 intense during a game? 16 But they are already broken in so that when 16 A. Yes. 17 17 the water hits the ball, the water will absorb into **Q.** Is that a fair statement? A. Yeah. 18 18 the ball and it will create, you know, enough 19 tackiness with just the water that you will be able 19 **Q.** Okay. Did some of that intensity get 20 to grip it when you throw it. 20 directed at Mr. Jastremski during this game? 21 So I was a little hesitant, but I went with 21 A. I mean, yes, I think it did. It did. I was 22 it. You know, I felt the balls before the game. I 22 pissed off. So it's kind of a good attitude for me 23 23 said all right, you know, let's go for it. And then to have all the time on the football field, you 24 I got on the field and hated it. 24 know. And I know that he got the brunt of it 25 Tell the Commissioner --25 because I didn't like -- for the first time in my

Case 1:15-cy-05916-RMB-JCF Document 28-230 Filed 08/04/15 Bage 18 of 172

	Case 1:15-cy-05916-RMB-JCF Document	<del>28-2</del>	30 Filed 08/0/15 Page 19 of 172
1	career, I didn't like the way the football felt.	1	A. Yes.
2	Q. Now, the next day after the Jets game, did	2	<b>Q.</b> And so you were telling him make sure the
3	Mr. Jastremski then tell you anything he learned	3	officials don't make it more than that? Don't make
4	about the balls?	4	it 16, right?
5	A. I don't know if it was the next day or days	5	A. Yes.
6	after that game.	6	Q. Other than that comment, have you ever, after
7	Q. Sometime after the Jets game, what did	7	that time, told Mr. Jastremski or anybody else in
8	Mr. Jastremski tell you he learned about the ball?	8	the Patriots anything else about the pressure of
9	A. That the balls were, you know, inflated to,	9	footballs? Was there any comments at all that you
10	you know, much higher than what they were agreed	10	make to them
11	upon before the game.	11	A. No.
12	<b>Q.</b> Do you recall what number he used?	12	Q until this happened?
13	-	13	A. No.
14	Q. 16 psi? Okay.	14	COMMISSIONER GOODELL: Tom, why would you go
15	And how did you react to that? First of all,	15	to Dave is it Schoenfeld the equipment
16	before he mentioned that, at that time, did you have	16	manager?
17	any prior knowledge as to what the exact psi levels	17	THE WITNESS: Yeah.
18	were set for in this NFL rule from 1920?	18	COMMISSIONER GOODELL: Why did you go to him
19	A. Zero.	19	and not Jastremski?
20	Q. No knowledge at all until then?	20	THE WITNESS: Because he's his boss.
21	A. Zero.	21	COMMISSIONER GOODELL: Jastremski was the one
22	Q. Okay. So after he told you it was something	22	who went through the process with you in the past?
23	called 16, what did you say to him? How did you	23	THE WITNESS: Right.
24	react to that?	24	COMMISSIONER GOODELL: And prepared them for
25	A. Well, obviously, I felt like somebody did	25	you, and you didn't ask him about the pressure?
	DIRECT/BRADY/KESSLER Page 59		DIRECT/BRADY/KESSLER Page 61
1	something to the balls. I thought possibly the	1	THE WITNESS: I may have had Dave no, I
2	referees added balls added air to the balls, just	2	didn't. I didn't ask John about it. I don't think
2 3	referees added balls added air to the balls, just because maybe they squeezed them, felt that these		didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them
2 3 4	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air	2 3 4	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John
2 3 4 5	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.	2 3 4 5	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.
2 3 4 5 6	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment	2 3 4 5 6	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know
2 3 4 5 6 7	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it	2 3 4 5 6 7	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when
2 3 4 5 6 7 8	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be	2 3 4 5 6 7 8	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule
2 3 4 5 6 7 8 9	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that	2 3 4 5 6 7 8 9	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even
2 3 4 5 6 7 8 9	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be	2 3 4 5 6 7 8 9	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?
2 3 4 5 6 7 8 9 10	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be between 12 and a half and 13 and a half. And then I	2 3 4 5 6 7 8 9 10	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?  A. No, I never thought about it.
2 3 4 5 6 7 8 9 10 11	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be between 12 and a half and 13 and a half. And then I told Dave	2 3 4 5 6 7 8 9 10 11	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?  A. No, I never thought about it.  COMMISSIONER GOODELL: Just so I'm clear,
2 3 4 5 6 7 8 9 10 11 12	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be between 12 and a half and 13 and a half. And then I told Dave  COMMISSIONER GOODELL: That was in the days	2 3 4 5 6 7 8 9 10 11 12 13	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?  A. No, I never thought about it.  COMMISSIONER GOODELL: Just so I'm clear, this is a Jets game in New York?
2 3 4 5 6 7 8 9 10 11 12 13	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be between 12 and a half and 13 and a half. And then I told Dave  COMMISSIONER GOODELL: That was in the days following the Jets game?	2 3 4 5 6 7 8 9 10 11 12 13 14	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?  A. No, I never thought about it.  COMMISSIONER GOODELL: Just so I'm clear, this is a Jets game in New York?  THE WITNESS: No.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be between 12 and a half and 13 and a half. And then I told Dave  COMMISSIONER GOODELL: That was in the days following the Jets game?  THE WITNESS: Yes, I don't know, two days,	2 3 4 5 6 7 8 9 10 11 12 13 14 15	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?  A. No, I never thought about it.  COMMISSIONER GOODELL: Just so I'm clear, this is a Jets game in New York?  THE WITNESS: No.  COMMISSIONER GOODELL: It's not? It was in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be between 12 and a half and 13 and a half. And then I told Dave  COMMISSIONER GOODELL: That was in the days following the Jets game?  THE WITNESS: Yes, I don't know, two days, three days, four days.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?  A. No, I never thought about it.  COMMISSIONER GOODELL: Just so I'm clear, this is a Jets game in New York?  THE WITNESS: No.  COMMISSIONER GOODELL: It's not? It was in New England?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be between 12 and a half and 13 and a half. And then I told Dave  COMMISSIONER GOODELL: That was in the days following the Jets game?  THE WITNESS: Yes, I don't know, two days, three days, four days.  COMMISSIONER GOODELL: Whatever it was?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?  A. No, I never thought about it.  COMMISSIONER GOODELL: Just so I'm clear, this is a Jets game in New York?  THE WITNESS: No.  COMMISSIONER GOODELL: It's not? It was in New England?  THE WITNESS: Yeah.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be between 12 and a half and 13 and a half. And then I told Dave  COMMISSIONER GOODELL: That was in the days following the Jets game?  THE WITNESS: Yes, I don't know, two days, three days, four days.  COMMISSIONER GOODELL: Whatever it was? THE WITNESS: Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?  A. No, I never thought about it.  COMMISSIONER GOODELL: Just so I'm clear, this is a Jets game in New York?  THE WITNESS: No.  COMMISSIONER GOODELL: It's not? It was in New England?  THE WITNESS: Yeah.  Q. Now, let me show you next something from the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be between 12 and a half and 13 and a half. And then I told Dave  COMMISSIONER GOODELL: That was in the days following the Jets game?  THE WITNESS: Yes, I don't know, two days, three days, four days.  COMMISSIONER GOODELL: Whatever it was? THE WITNESS: Yes. I said make sure when the referees get the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?  A. No, I never thought about it.  COMMISSIONER GOODELL: Just so I'm clear, this is a Jets game in New York?  THE WITNESS: No.  COMMISSIONER GOODELL: It's not? It was in New England?  THE WITNESS: Yeah.  Q. Now, let me show you next something from the Wells report, because Mr. Nash in his opening
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be between 12 and a half and 13 and a half. And then I told Dave  COMMISSIONER GOODELL: That was in the days following the Jets game?  THE WITNESS: Yes, I don't know, two days, three days, four days.  COMMISSIONER GOODELL: Whatever it was? THE WITNESS: Yes. I said make sure when the referees get the balls, give them this sheet of paper that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?  A. No, I never thought about it.  COMMISSIONER GOODELL: Just so I'm clear, this is a Jets game in New York?  THE WITNESS: No.  COMMISSIONER GOODELL: It's not? It was in New England?  THE WITNESS: Yeah.  Q. Now, let me show you next something from the Wells report, because Mr. Nash in his opening mentioned that there were these e-mails from other
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be between 12 and a half and 13 and a half. And then I told Dave  COMMISSIONER GOODELL: That was in the days following the Jets game?  THE WITNESS: Yes, I don't know, two days, three days, four days.  COMMISSIONER GOODELL: Whatever it was? THE WITNESS: Yes. I said make sure when the referees get the balls, give them this sheet of paper that highlighted, because really I don't want that to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?  A. No, I never thought about it.  COMMISSIONER GOODELL: Just so I'm clear, this is a Jets game in New York?  THE WITNESS: No.  COMMISSIONER GOODELL: It's not? It was in New England?  THE WITNESS: Yeah.  Q. Now, let me show you next something from the Wells report, because Mr. Nash in his opening mentioned that there were these e-mails from other people or texts from other people that are not you.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be between 12 and a half and 13 and a half. And then I told Dave  COMMISSIONER GOODELL: That was in the days following the Jets game?  THE WITNESS: Yes, I don't know, two days, three days, four days.  COMMISSIONER GOODELL: Whatever it was?  THE WITNESS: Yes.  I said make sure when the referees get the balls, give them this sheet of paper that highlighted, because really I don't want that to ever happen again. I don't want to go out there on	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?  A. No, I never thought about it.  COMMISSIONER GOODELL: Just so I'm clear, this is a Jets game in New York?  THE WITNESS: No.  COMMISSIONER GOODELL: It's not? It was in New England?  THE WITNESS: Yeah.  Q. Now, let me show you next something from the Wells report, because Mr. Nash in his opening mentioned that there were these e-mails from other people or texts from other people that are not you. But it's talking about you, so I want to give you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be between 12 and a half and 13 and a half. And then I told Dave  COMMISSIONER GOODELL: That was in the days following the Jets game?  THE WITNESS: Yes, I don't know, two days, three days, four days.  COMMISSIONER GOODELL: Whatever it was? THE WITNESS: Yes. I said make sure when the referees get the balls, give them this sheet of paper that highlighted, because really I don't want to go out there on the field and play with a ball that's	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?  A. No, I never thought about it.  COMMISSIONER GOODELL: Just so I'm clear, this is a Jets game in New York?  THE WITNESS: No.  COMMISSIONER GOODELL: It's not? It was in New England?  THE WITNESS: Yeah.  Q. Now, let me show you next something from the Wells report, because Mr. Nash in his opening mentioned that there were these e-mails from other people or texts from other people that are not you. But it's talking about you, so I want to give you some chance to give context to what this seems to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be between 12 and a half and 13 and a half. And then I told Dave  COMMISSIONER GOODELL: That was in the days following the Jets game?  THE WITNESS: Yes, I don't know, two days, three days, four days.  COMMISSIONER GOODELL: Whatever it was?  THE WITNESS: Yes.  I said make sure when the referees get the balls, give them this sheet of paper that highlighted, because really I don't want that to ever happen again. I don't want to go out there on the field and play with a ball that's  Q. The sheet of paper was, the rules say between	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?  A. No, I never thought about it.  COMMISSIONER GOODELL: Just so I'm clear, this is a Jets game in New York?  THE WITNESS: No.  COMMISSIONER GOODELL: It's not? It was in New England?  THE WITNESS: Yeah.  Q. Now, let me show you next something from the Wells report, because Mr. Nash in his opening mentioned that there were these e-mails from other people or texts from other people that are not you. But it's talking about you, so I want to give you some chance to give context to what this seems to refer to, even though you obviously don't know what
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	referees added balls added air to the balls, just because maybe they squeezed them, felt that these balls feel soft and just, you know, squeezed air into the ball.  So I told our I asked our equipment manager, Dave Schoenfeld. I said Dave, what does it say in the rule book as to how the balls should be inflated? And he brought me a piece of paper that was highlighted and it said the balls should be between 12 and a half and 13 and a half. And then I told Dave  COMMISSIONER GOODELL: That was in the days following the Jets game?  THE WITNESS: Yes, I don't know, two days, three days, four days.  COMMISSIONER GOODELL: Whatever it was? THE WITNESS: Yes. I said make sure when the referees get the balls, give them this sheet of paper that highlighted, because really I don't want to go out there on the field and play with a ball that's	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	didn't. I didn't ask John about it. I don't think I did. I mean, it could have been the two of them there together at the same time. I'm sure John eventually found out.  Q. Tom, at the time of this, did you even know who on the Patriots would be with the officials when the balls were being looked at to show them the rule to tell them that? In other words, did you even know it was Jastremski or somebody else?  A. No, I never thought about it.  COMMISSIONER GOODELL: Just so I'm clear, this is a Jets game in New York?  THE WITNESS: No.  COMMISSIONER GOODELL: It's not? It was in New England?  THE WITNESS: Yeah.  Q. Now, let me show you next something from the Wells report, because Mr. Nash in his opening mentioned that there were these e-mails from other people or texts from other people that are not you. But it's talking about you, so I want to give you some chance to give context to what this seems to refer to, even though you obviously don't know what the e-mails say or mean other than that you are

#### Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/0/RECT/BRADY/KESSLERPage 64 1 looking at them now. 1 balls to be less than 12.5? 2 2 A. No. Take a look at in the Wells report, which is 3 NFLPA Exhibit 7. I'm sure it has an NFL number as 3 **Q.** Now, let me now mention, because it came up well. And take a look at page 86 of the Wells in the Wells report, the 2006 rule change that you 4 4 were involved in. Were you one of the quarterbacks 5 report. 5 6 COMMISSIONER GOODELL: Is this it? to lobby for the rule change in 2006 regarding 6 7 MR. LEVY: Yes. 7 preparation of footballs? 8 MR. KESSLER: Do you have it, Commissioner? 8 A. Yes. 9 COMMISSIONER GOODELL: Yes. 9 **Q.** Who were some of the other quarterbacks who 10 Q. So the Jets game we are talking about was 10 were involved in that? 11 A. I know Peyton was, Trent Green, Drew Brees; 11 October 16th. You will see these are a pair of 12 e-mails from Mr. Jastremski to Panda that are 12 who else? 13 October 17th. You will see that's the day after the 13 **Q.** Were most of the quarterbacks in the League 14 Jets game, just to give context to everyone. 14 involved at that time? 15 15 A. All of them. And everyone ultimately that we By the way, I will represent to you because it says in Mr. Wells' report that Panda is sent a petition to, you know, said, hell yeah, let's 16 16 17 Mr. Jastremski's fiancé, so that we know who he's 17 do it. Let's agree with it. 18 communicating with is his fiancé, the day after the 18 **Q.** And let me just refer, we have NFLPA 19 Jets game, okay? 19 Exhibit 203 is a copy of the petition. Is this the 20 20 petition that you and other quarterbacks signed And you will see what he writes is, 21 "Ugh...Tom was right." 21 asking for the ability to prepare your footballs as 22 Do you see that? And then it goes, "I just 22 a rule change? 23 measured some of the balls. They are supposed to be 23 A. Yes. Q. Okay. Now, in this petition, was there any 13. They were, like, 16, felt like bricks." 24 24 25 25 discussion of the pressure of the balls or inflating Do you see that? DIRECT/BRADY/KESSLERPage 63 DIRECT/BRADY/KESSLERPage 65 A. Yeah. balls or anything about that subject at all? 1 1 Q. Now, at this time, when he says, "Tom was 2 A. No. 2 3 right," what had you discussed with Mr. Jastremski 3 Q. During the time in 2006, did you have during the game? Did you say anything about the 4 discussions with anybody about inflating footballs pressure at that time or the psi during the game? or the psi's of footballs or even what those 5 5 6 A. No. 6 requirements were? 7 Q. What did you tell him? 7 A. No. 8 A. I don't -- that the balls sucked, yeah. Q. Did you ever learn the 12.5 to 13.5 standard 8 9 Q. I think you said they felt hard or fat or 9 during that 2006 process? 10 A. No. 10 something like that? 11 A. I didn't like them. 11 **Q.** Okay. Now, was this rule ultimately 12 Q. Does this reference to you in any way 12 presented to the NFL Competition Committee? A. Yes. 13 indicate that you had a conversation with him during 13 14 the Jets game about pressure or psi or anything like 14 Q. And did the Competition Committee adopt this 15 that? 15 rule change to let the quarterbacks prepare their A. No. 16 16 balls? 17 Q. Thank you. 17 A. Yes. 18 Now, when you told Mr. Schoenfeld to show the 18 COMMISSIONER GOODELL: Mr. Kessler, who did 19 referees the rule, did you ever tell him you wanted 19 this come from? MR. KESSLER: The petition? 20 him or anyone else to make a psi level below 12.5 20 21 that you now learned was the limits? 21 COMMISSIONER GOODELL: Yes. 22 A. No. 22 MR. KESSLER: The quarterbacks and the League 23 23 **Q.** Okay. Did you ever tell anyone in the Jets all signed it. 24 organization -- I'm sorry, the Patriots organization 24 COMMISSIONER GOODELL: I know. I signed it. -- that they should do -- they should try to get the 25 But who did it come from?

	DIRECT/BRADT/RESSLER Fage 00		DIRECTIONAL TIMESSLEN Fage 00
1	THE WITNESS: Peyton.	1	A. No.
2	COMMISSIONER GOODELL: Peyton?	2	Q. Did you in any way suggest to him to do
3	THE WITNESS: Manning.	3	something to the balls to make them less than 12.5?
4	MR. KESSLER: And then this was presented to	4	A. No.
5	the Competition Committee and that's what happened.	5	Q. Did you even suggest to him anything about
6	Q. Now, in the Wells report, Mr. Wells said, and	6	the pressure whether it was to make it at any level?
7	this is one of the points that Mr. Nash said or	7	A. No.
8	Mr. Wells reached his conclusions, and he wrote, "It	8	Q. What were you talking to Mr. Jastremski about
9	is reasonable to infer" that's the words he	9	when you were selecting the balls, if you remember;
10	used "that you were likely to have become	10	what kinds of factors were you talking about?
11	familiar with the NFL rules regarding the 12.5	11	A. Just the way the ball felt. And this was a
12	minimum inflation level in 2006 when you were	12	different can I talk about just, again, was a
13	lobbying for this rule."	13	different process than what we had normally gone
14	, -		through.
	Regardless of what Mr. Wells said was	14	•
15	reasonable to infer, did you, in fact, become aware	15	COMMISSIONER GOODELL: The AFC Championship
16	of the rule at that time?	16	Game?
17	A. No.	17	THE WITNESS: The AFC Championship Game.
18	Q. Was there any discussion of that rule at that	18	A. So knowing that I didn't want to go back and
19	time?	19	use two-month balls in this AFC Championship Game
20	A. No.	20	like we did for the original Jets game, I think on
21	Q. Now, let me now turn to the AFC Championship	21	Friday we found out the weather was going to be
22	Game against the Colts.	22	inclement.
23	MR. KESSLER: Commissioner, do you think we	23	And we decided to break in brand-new
24	should have a break? Should I continue? Okay, we	24	footballs with, like, 36 hours to go before the game
25	will continue.	25	because I didn't want any Lexol on the balls. And I
	DIRECT/BRADY/KESSLER Page 67		DIRECT/BRADY/KESSLER Page 69
1	COMMISSIONER GOODELL: Do you want a break?	1	didn't want to do the same thing that happened in
2	THE WITNESS: No.	2	the Jets game.
3	Q. Looking at that game, do you recall	3	So we kind of referred back to an old process
4	approximately what time the game was going to start	4	that the previous equipment manager who was
5	that night, roughly?	5	responsible for the preparation of the game balls
6	A. 7:30, 8:00.	6	did, which was like I said, that really extensive
7	<b>Q.</b> Would it refresh your recollection if I said	7	manual throwing, gloving process that makes up for a
8	it was around 7:00, 6:50, 7:00?	8	lot of the Lexol.
9	A. It was a night game.	9	What you gain from the Lexol, kind of the
10	<b>Q.</b> That sounds about right? Okay.	10	weeks of breaking the ball in, that kind of, you can
11	How many hours before, approximately, would	11	get through those. So I asked John to make up 24
12	you have made your final approval of the balls on	12	brand new balls without putting any Lexol on them.
13	13 that day for the AFC Championship Game?		COMMISSIONER GOODELL: Have you ever done
14	A. I think between three and four hours.	14	that procedure before?
15	Q. Okay. Now, when you selected the footballs,	15	THE WITNESS: No. It had been many years.
16	who was assisting you in the selection process at	16	COMMISSIONER GOODELL: When you played in
17	that time?	17	inclement weather, did you ever decide to do that?
18	A. John.	18	THE WITNESS: No.
19	Q. Anybody else besides Mr. Jastremski or was it	19	COMMISSIONER GOODELL: This is the first time
20	just the two of you?	20	in the AFC Championship Game you said, I want to
21	A. Just the two of us.	21	break in 24 new footballs in a different process
22	<b>Q.</b> Okay. Now, at the time that you made that	22	than you have ever done before?
23	selection, did you give Mr. Jastremski did you	23	THE WITNESS: Well, that's the way before
24	say anything to him about the pressure level of the	24	John took over, the guy John Hillebrand, that's how
25	balls on that day?	25	he broke the balls in. We didn't use much Lexol with
	172 sheets Page 66 t		

Case 1:15-cv-05916-RMB-1CF Document 28-230 Filed 08/0//15 RADY/KESSLER Page 68

#### Case 1:15-cy-05916-RMB-JCF Document 28-230 Filed 08/0/1/15 Bage 22 of 172 Case 1:15-cy-05916-RMB-JCF Document 28-230 Filed 08/0/RECT/BRADY/KESSLERPage 72 1 John Hillebrand. That's not what he wanted to do. 1 then? 2 2 A. No. Normally I just leave because I do it in When John Jastremski took over, we used a lot more 3 Lexol. 3 the equipment room. 4 COMMISSIONER GOODELL: Was the Jets game in 4 **Q.** So that was, you gave the balls to him. When did you next see any of the balls? 5 inclement weather? 5 6 THE WITNESS: I don't think it ended up --6 A. On the field. Q. On the field? 7 no. It was supposed to be, but it didn't end up 7 8 being. It may have -- it may have rained; I don't 8 COMMISSIONER GOODELL: Just so I am clear, 9 remember. 9 for warmup or game? 10 Q. Which game are we talking about? 10 THE WITNESS: Game. 11 11 A. The Jets game. **Q.** Now during the game you got the balls. Did 12 **Q.** The original? 12 they feel okay to you? 13 COMMISSIONER GOODELL: Back in October. 13 A. Yes. Q. In other words, you didn't notice anything 14 A. So what happened was I don't want any -- we 14 15 definitely need to use new balls, but I don't want unusual about the balls or your balls felt okay? 15 any Lexol on the balls. So you basically have to go A. I didn't think about it. They felt fine; I 16 16 17 through this rigorous ball preparation with, like, 17 didn't. 18 36 hours to go. 18 Q. You had a process like you had in the Jets 19 COMMISSIONER GOODELL: But over the three 19 game? 20 20 years that John was there --A. That was the only time I reacted to not 21 THE WITNESS: Yeah. 21 having a ball. 22 COMMISSIONER GOODELL: -- you never did that 22 Q. They felt like they normally feel after you 23 before? You never did a 24, 48-hour process to take 23 select them? new balls and break them in? A. Yes. 24 24 25 25 THE WITNESS: No. Q. After halftime, did the balls feel any DIRECT/BRADY/KESSLER Page 71 DIRECT/BRADY/KESSLER Page 73 COMMISSIONER GOODELL: But you decided to do different to you than they did in the first half of 1 1 the game? 2 it because you felt --2 3 THE WITNESS: Right. But we also had a lot 3 A. No. 4 of backups to that, too. I said, look, in case I 4 Q. Now, did you know during the game that the don't like this when you are done, make sure we referees had put more air into the balls to get them 5 have, like, that night, I think I had, like, 6 to 13 psi at the halftime? Were you aware of that 6 7 probably 50 balls to choose from. 7 during the game? 8 8 A. No. COMMISSIONER GOODELL: Okay. 9 Q. Now, Mr. Brady --**Q.** So could you even tell the difference between whatever the inflation was in the first half versus 10 THE WITNESS: And, sorry, when I felt them 10 11 that night, I liked them so we went with them. 11 the second half in terms of your feel? Did you have 12 COMMISSIONER GOODELL: "That night" was what? 12 any sense of that during the game? 13 A. No. THE WITNESS: The night of the game. 13 14 COMMISSIONER GOODELL: Okay. 14 Q. Now, just to ask, do you recall how you 15 Q. Mr. Jastremski never was with you prior to 15 played in the second half of that game? 16 this year when you went to the Super Bowl, right? 16 A. We played good. We played really well. 17 17 A. No. **Q.** Is it correct that at least your statistics 18 Q. Okay. Mr. Hillebrand had been with you and 18 of passing a touchdown were better in the second 19 he was preparing the balls when you got to the 19 half after the ball was raised to 13 by the referees? You didn't know it, than they were in the 20 Super Bowl sometimes; is that correct? 20 21 A. Yes. 21 first half? 22 Q. During the game, now, when did you next get 22 A. Yeah. 23 the balls after you gave them to John on game day? 23 Q. Was that correct? 24 You picked your balls and you gave it to John. Do 24 A. What did I do? I don't -you know where he took them or what happened after 25 Okay. You don't focus on your own 06/25/2015 03:43:11 PM Page 70 to 73 of 457 22 of 172 sheets

#### Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Brade 23 of 172 Page 76 1 statistics; what do you focus on in the game? 1 Q. Okay. Now, there are records that Mr. Wells 2 2 A. Whether we win or lose. has noted that in the weeks after the game, now, so 3 Q. Yes, okay. 3 you now have two weeks to Super Bowl, you had A. We did good in the second half. We played various text messages and phone conversations with 4 4 5 really well. 5 Mr. Jastremski? 6 Q. That's sufficient. 6 A. Yes. 7 Now what I want to do is focus on the events 7 Q. Now, first of all, what was most of those 8 after the game is over. When did you first become phone conversations about? Why were you talking to 8 9 aware after the game now that someone was making 9 Mr. Jastremski in those two weeks? 10 allegations that the Patriots had done something to 10 A. Because we were obviously going to the Super 11 deflate the balls during the game? How did you 11 Bowl, still had the season to play and I knew there 12 learn about that? 12 was another extensive process of breaking in all the 13 A. On the radio show the following morning. 13 brand new Super Bowl footballs. 14 **Q.** The following morning? 14 So we had numerous conversations on the 15 A. Yeah. 15 processes that we would go through to break them in 16 Q. Okay. And what was your reaction when you 16 because the ones we had gone through the AFC 17 heard about that? Championship where we didn't use the Lexol, we were 17 18 A. I couldn't believe it. I think I said it's 18 going to play in a dome. 19 ridiculous. 19 The last time we played in Arizona, it rained 20 20 COMMISSIONER GOODELL: Just so I am clear, after the game. So I didn't necessarily want to 21 you were being interviewed or you just heard it on 21 chance it with putting a bunch of Lexol. So we were 22 22 the radio? just determined when he was going to get the balls 23 THE WITNESS: I was being interviewed by the 23 whether we were going to use them at practice or 24 host on the show. 24 not. I think most of the conversations centered 25 25 Q. Now, after this radio interview, you heard around breaking in those balls. DIRECT/BRADY/KESSLER Page 75 DIRECT/BRADY/KESSLER Page 77 this allegation; did you speak to anyone in the 1 **Q.** The Commissioner may already know this. I Patriots about this allegation? 2 2 didn't know this. Do you have to prepare more 3 3 footballs for a Super Bowl than for other games in A. I spoke to John. 4 Q. Okay. And did you ask Mr. Jastremski if he 4 the NFL season? A. Yeah. 5 knew anything about the efforts to deflate the 5 Q. Why is that? Could you explain to the 6 footballs or anything like that? 6 7 A. Yes. 7 Commissioner. Maybe you know all this. What's 8 different about the Super Bowl? **Q.** What did he tell you? 8 9 A. That he has no idea what happened and that he 9 A. Well, you know, we break in, I think 10 couldn't explain it. 10 almost -- I think you use the ball for one play and 11 Q. And you know Mr. Jastremski a long time, I 11 then they take it out of the game. So I think 12 12 there's almost 100 balls that we broke in. mean, for these three years? 13 A. Well, I have known him for 12 years since he 13 Q. How many balls do you have to select for a 14 has been working on the team because he was actually 14 Super Bowl as opposed to a normal game? 15 kind of the quarterback ball boy at one point during 15 A. I think around 100 as opposed to 12. 16 training camp, so. 16 Q. That's, like, almost ten times as many balls? 17 17 A. Yeah. Q. You generally found that in your dealings 18 with him, he has been honest and upfront with you 18 **Q.** So in your experience in past Super Bowls, is 19 over the years? 19 that an expensive process for someone like 20 A. Absolutely. 20 Mr. Jastremski to go through in that two-week period 21 Q. Do you believe that? 21 of time? 22 A. Absolutely. 22 A. Absolutely. 23 23 Q. So when he told you he didn't know anything Q. And he had ever done that before for a Super 24 about it, did you believe him? 24 Bowl?

25

Α.

No.

25

Α.

Absolutely.

#### Case 1:15-cy-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 24 of 172 Page 80 1 **Q.** And you were aware of that? 1 Commissioner, describe the quarterback room. Is it 2 A. Yes. 2 kind of some secret sanctuary like the Bat Cave that 3 Q. Now, take a look again. I want to refer you 3 only the most special people get invited in? What kind of people are in the quarterback room every 4 to some of the e-mails or texts, the things that 4 5 Mr. Wells cites. So look at page 104 of the Wells 5 dav? 6 6 A. All the quarterbacks, coaches. report, which is NFLPA Exhibit 7. 7 Now, you will notice this is a text from you 7 Q. Can any one of your backup quarterbacks 8 8 invite whoever they want into the quarterback room? to Mr. Jastremski at 9:51 in the morning of the 9 9 Absolutely. 19th, which is the, I believe the day after the AFC 10 Championship Game, so after the radio interview and 10 Q. Okay. 11 11 remember you said you had a phone conversation with COMMISSIONER GOODELL: Had John ever been in 12 him? 12 it? 13 A. Yes. 13 THE WITNESS: Up to that point, I have no 14 Q. So was this text after that phone 14 idea. conversation you had with him? 15 15 COMMISSIONER GOODELL: But not with you or 16 A. Yes. 16 you don't remember? 17 Q. Okay. Now, what did you mean or why were you 17 THE WITNESS: I don't remember. 18 sending a text to Mr. Jastremski saying, "You are 18 **Q.** Now, normally, when you are preparing for a 19 good, Jonny boy?" 19 game, do you prepare in the guarterback room or do 20 20 And then he writes back to you, "Still you prepare at your home, usually? 21 nervous. So far, so good, though. I will be all 21 A. Home. 22 22 right." Q. Okay. On this particular day, were you 23 What do you understand that to be referring 23 preparing in the quarterback room at that time? 24 to, if you could explain that to the Commissioner? 24 A. Yes. 25 25 Q. Okay. And so, why did you call A. I wrote, "You good, Jonny boy," like, you DIRECT/BRADY/KESSLER Page 79 DIRECT/BRADY/KESSLER Page 81 1 doing okay? Because he was obviously nervous the 1 Mr. Jastremski to the quarterback room? Was there 2 fact that these allegations were coming out that 2 some significance to that? 3 3 they would fall back on him. And I was just, I A. Because I was doing all my Seahawks 4 guess, expressing my concern for him. 4 preparation and I was just thinking about the Super 5 Q. Now, you then wrote to him, "You didn't do 5 Bowls and asked him to come to the quarterback room 6 6 anything wrong, bud." as opposed to me going to try to find him somewhere. 7 Why did you say that? Was that based on your 7 Q. Okay. Now, during that time in the 8 conversation with him? 8 quarterback room, what was the purpose of asking 9 A. Yeah, I said, "You didn't do anything wrong, 9 him? What did you want to talk about? A. The Super Bowl. 10 bud." That's how I, you know. 10 11 Q. And then he writes back, "I know. I will be 11 Q. Okay. So did you call him there because you 12 all good." 12 wanted to discuss something about the allegations 13 A. Yeah. 13 that were being made at that time? 14 Q. Did that set of texts refer in any way to 14 A. No. 15 your knowing that he had done anything to deflate 15 **Q.** Is it possible that something came up about 16 footballs or anything like that at all? 16 is he feeling okay because you heard that? 17 17 A. No. A. Sure, absolutely. 18 Q. Now let me refer you next, the Wells report 18 **Q.** But anything beyond that, do you remember any 19 notes that, "There came a time that you invited 19 conversations about the allegations? A. I don't remember. 20 Mr. Jastremski in this two-week period to the Super 20 21 Bowl to come to the quarterback room." 21 Q. Okay. Now, by the way, there has been some 22 I think it was on that day. Do you recall 22 discussion from the Wells report about Mr. McNally 23 23 inviting him to the quarterback room? and whether you knew him or not, okay. Prior to all 24 A. Yes. 24 these allegations, did you know the name Jim Well, first of all, just to explain to the 25 McNally?

# Case 1:15-ry-05916-RMB-JCF-approximent 48-230 Filed 08/04/15-Page 25 of 172 age 84

- 1 A. No.
- 2 Q. Now, did you know who it was, even, who met
- 3 with referees in their locker room when they are
- 4 testing the balls? Did you even know which person
- **5** physically on the Patriots was the person who went
- 6 in there and did that?
- 7 A. No.
- **Q.** Okay. Now, in the New England stadium on
- **9** game day, are there lots of people who come in just
- 10 for game day as kind of part-time people working in
- **11** various ways?
- 12 A. Yes.
- **Q.** Okay. And do you get to sort of know over
- 14 the years their faces, whether or not you know their
- 15 names?
- 16 A. Yes.
- 17 Q. So is it possible that you actually knew -- I
- 18 will even ask it differently.
- 19 Have you subsequently learned who Mr. McNally
- 20 is among those people?
- 21 A. Yes.
- **Q.** And is he somebody you actually sort of knew
- 23 as a face, somebody to go, like, wave to but you
- 24 didn't know who he was, his name?
- 25 A. Yes.

### DIRECT/BRADY/KESSLERPage 83

- **Q.** Okay. Now, other than that, do you have any
- 2 relationship with Mr. McNally at all?
- 3 A. No.
- **Q.** Now, there is discussion in the Wells report
- 5 about Mr. McNally getting some autographed jerseys
- 6 or footwear or other things that you would
- 7 autograph; are you familiar with that?
- 8 A. Yes.
- **9 Q.** Describe for the Commissioner what your
- 10 practice is when you get asked to sign jerseys or
- 11 shoes or other things by people who are, you know,
- 12 at the stadium or around the locker room or any of
- 13 those environments; what is your normal practice?
- 14 A. I get asked I would say on a daily basis to
- 15 sign any number of things. I think I told Mr. Wells
- 16 I don't think I have ever turned anyone down. So if
- 17 someone asked, I signed whatever they would ask.
- 18 Sometimes they would put it in my locker and
- 19 walk away and there would be things there and I
- $20\,$   $\,$  would just sign them. But if somebody asked for an
- 21 autograph, I would give it to them.
- **Q.** Have you signed autographs for merchandise of
- 23 people who you don't know what they are? Someone
- 24 comes over and says, "Could you give me this for
- 25 somebody else?" Would you sign that even if you

- 1 don't know the person?
- 2 A. Absolutely.
- **Q.** Have you ever handed signed merchandise to
- 4 people in the locker room at the stadium when you
- 5 didn't really know what their name was?
- 6 A. Yes.
- 7 Q. You just said here, they asked, someone did
- 8 it and you gave it to them?
- 9 A. Yes.
- **10 Q.** So there's a statement here in the Wells
- 11 report, and I don't know who the source is because
- 12 you can't tell from the report, that someone says
- 13 that you handed a signed Jersey or shoes or
- 14 something to Mr. McNally at one point, okay.
- 15 If you did that, did you know somebody named
- **16** Mr. McNally when you did it?
- 17 A. No.
- **18 Q.** Now, let me turn now very briefly to the
- 19 subject of electronic communications. Now, did
- 20 there come a time after February 28th, so now we are
- 21 well past the Super Bowl when you learned from your
- 22 lawyers or your agents that there had been some
- 23 request made for e-mails and texts that you might
- **24** have?
- 25 A. Yes.

### DIRECT/BRADY/KESSLERPage 85

- 1 Q. Okay. Now, we know that those were --
- 2 nothing was turned over or the request was not
- 3 responded to. How did you make the decision about
- 4 that? What were you relying upon? How did you
- 5 decide that?
- 6 A. Well, I was relying on their advice as my
- 7 lawyers and what they basically said, There's been a
- 8 request, but we don't think it's proper for you to
- 9 turn your phone over, so you don't need to do that.
- **10 Q.** If they had told you that you should turn
- 11 over anything, would you have done so?
- 12 A. Absolutely.
- 13 Q. Okay. At the time that the request was made,
- 14 okay, you know what e-mails you did and what texts
- 15 you did. Were there any e-mails or texts that you
- **16** were worried about which showed you knew about
- 17 deflating or anything like that? Was there anything
- 18 you were trying to hide or conceal in your mind?
- 19 A. Absolutely not.
- 20 Q. Okay. Were there any such texts where you
- 21 wrote to somebody talking about deflating footballs
- **22** or other things in connection with the AFC
- 23 Championship Game?
- 24 A. No.
- **Q.** Were there any e-mails like that?

#### Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/0/RECT/BRADY/KESSLERPage 88 1 A. No. 1 phone or anything like that? 2 2 A. No. Q. Now, you were interviewed by Mr. Wells and 3 his team, correct? 3 **Q.** Did you do anything unusual except your 4 A. Yes. normal practice, when you are done with a cell 4 Q. And did they spend a number of hours with phone, to get rid of it and have it destroyed? 5 5 6 you? 6 A. That's what I do. 7 A. Yes. 7 COMMISSIONER GOODELL: Just, Jeff, can I ask 8 **Q.** During that time, did they ever tell you that 8 a question? How often do you normally dispose of 9 if you didn't turn over some texts or e-mails or 9 your phone? When you say "get rid of," does it run 10 respond to that that you were going to be 10 out of time? 11 11 disciplined in any way, you know, that you were THE WITNESS: Well, if it -- a new version 12 going to be violating some, you know, specific 12 may come out of a particular phone, if I break the 13 policy about that or anything like that? Did they 13 phone, I've stepped on the screen a few times, it 14 ever tell you that? 14 just fell out of my bag at my locker, I'm not seeing 15 A. No. 15 it, I stepped on it, I think three or four times, **Q.** If you had been informed by them and they 16 16 sometimes the touch panel breaks. 17 said look, this is your duty to cooperate, would you 17 COMMISSIONER GOODELL: But it's not a very 18 then have produced them no matter what your agents 18 regular practice, irrespective of you breaking it, 19 and your counsel said? 19 to just get rid of it or when a new version comes 20 A. Yes. 20 out? I'm trying to understand that, or is it every 21 **Q.** Okay. Have you ever had anything to hide on 21 month you change it just for security reasons? 22 this issue, Mr. Brady? 22 THE WITNESS: No, I don't do that. 23 A. No. 23 COMMISSIONER GOODELL: Does your number 24 24 Q. Now, Mr. Brady, let me ask you about your change when that happens? 25 patterns of phones, okay, because not everybody has 25 THE WITNESS: No. The number would stay the DIRECT/BRADY/KESSLERPage 87 DIRECT/BRADY/KESSLERPage 89 this pattern, okay. First of all, do you have 1 1 same. access to basically cell phones for free? 2 2 COMMISSIONER GOODELL: Okay. 3 A. Yes. 3 Q. And, in fact --4 **Q.** So it is essentially costless to you to get 4 THE WITNESS: The only time I changed it was another cell phone? after the report came out and there was -- a lot of 5 5 A. Yes. 6 6 people started guessing what my phone number was and 7 Q. Okay. Now, have you had a practice, and tell 7 then I changed my number. 8 me when it began, how long ago, of destroying or, I 8 MR. KESSLER: And, Commissioner, the phone 9 guess, asking somebody to destroy or get rid of your 9 log we produced, just for your information, covers 10 cell phones periodically? 10 that whole period for which we don't have the cell 11 A. I think for as long as I have had a cell 11 because the number was the same number. And we got 12 phone. 12 all the phone records from the company and that has Q. Okay. Since you have been in the NFL? 13 13 been submitted. 14 A. I don't remember all the way back, but yeah, 14 COMMISSIONER GOODELL: Do you have multiple 15 I've had a cell phone since being in the NFL. 15 phones? 16 **Q.** So whenever you first started having, I don't 16 THE WITNESS: No. 17 know when cell phones started, but whenever you 17 Q. Mr. Brady, when Mr. Wells interviewed you, started having cell phones in the NFL, that has been 18 18 did you answer every question that he or his 19 your practice, correct? 19 colleagues asked you? A. Yes. 20 A. Yes. 20 21 Q. Okay. And did you do anything unusual here 21 **Q.** Did you refuse to answer any question that he or his colleagues asked you? 22 in terms of getting rid of your phone? And I will 22 23 23 A. No. explain what I mean. In other words, did you hear 24 about the Wells investigation or the request for 24 **Q.** By the way, did he ever ask you if there were this and then say, oh, let's get rid of my cell 25 any texts or phone messages that you had that would

#### Case 1:15-cv-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 27 of 172 Page 92 1 have discussed deflating footballs or anything like 1 It goes from 77 to 79 in terms of that. So at the 2 2 that? bottom, these are not e-mails that you sent or texts 3 Α. Did he ask me? 3 you sent. 4 4 Q. Yes, did he ask you that? This is between Mr. Jastremski and someone 5 Α. Yes. 5 called Bird. I will represent to you Mr. Wells has 6 Q. And what did you tell him? 6 reported that Mr. McNally's nickname is Bird. So 7 Α. 7 this is a set of text messages between Mr. McNally 8 **Q.** That there were none? 8 and Mr. Jastremski. And you will see the date is 9 Right. Α. 9 10/17, okay, which is the morning after that Jets 10 10 game that we previously discussed with you. Q. Let me now turn to a few more of the --11 11 A. Can I just say something as I think about the So this is what was written. Bird writes to 12 process --12 Jastremski, "Tom's sucks. I am going to make that 13 Q. Yes, please. 13 next ball a fucking balloon." 14 A. -- of getting rid of the phone? 14 Do you see that? 15 15 Q. Anything you would like to tell about the And then Jastremski writes, "Talked to him 16 Commissioner. 16 last night. He actually brought you up and said you 17 A. I think whenever I'm done with the phone, I 17 must have a lot of stress trying to get them done." 18 don't want anybody ever to see the content of the 18 John Jastremski to Bird, "I told him it was. 19 phone, photos. Obviously there is a log with the 19 He was right, though." 20 20 smart phones of all my e-mail communications. So in Then John says, "I checked some of the balls 21 those folders, there is player contracts. There's, 21 this morning. The refs fucked us. A few of them 22 22 you know, endorsement deals. There's -- along with were at almost 16." 23 photos of my family and so forth that I just don't 23 Do you see that? 24 want anyone to ever come in contact with those. 24 Α. Yes. 25 25 Q. Now, just in context, this was after you had A lot of people's private information that, DIRECT/BRADY/KESSLER Page 91 DIRECT/BRADY/KESSLER Page 93 1 had that phone -- if it shows up somewhere, then, 1 gotten somewhat agitated with Mr. Jastremski about you know, all the contacts in my phone, you know, 2 how the ball felt during the game, right? 2 3 wouldn't want that to happen. So I have always told 3 A. Yes. 4 the guy who swaps them out for me, make sure you get 4 Q. Now, when it says here that, "Talked to him 5 rid of the phone. 5 last night. He actually brought you up," did you 6 6 ever bring up Mr. McNally at that time? And what I mean is destroy the phone so that 7 no one can ever, you know, reset it or do something 7 A. No. 8 8 where I feel like the information is available to Q. Did you even know that, by name or not, did 9 anybody. 9 you even know who it was who went to the referees' 10 Q. Mr. Brady, we've already gone through a few 10 room when balls were blown up or not? Did you know 11 of the texts and the e-mails that are in the Wells 11 anything about that, or tested? 12 12 A. No. report that either you sent or that mentioned you. 13 13 Q. Do you remember saying anything to What I'm going to do now is, there are a very few of 14 these that actually mention you or are alleged to 14 Mr. Jastremski about somebody having a lot of stress 15 mention you. 15 about getting something done? 16 I am going to ask you about each of them. 16 A. No. 17 17 And I know these are not your e-mails, but Mr. Nash **Q.** Now, in the Jets game, if you look at the 18 has said that we should look at these e-mails. 18 last one, you see the reference to 16. That's the 19 MR. KESSLER: And so what I want to tell the 19 one they thought was -- that they tested and they 20 Commissioner, I'm covering every one that Mr. Wells 20 found was at 16, right; is that correct? claims relates to Mr. Brady in some way, either 21 21 A. What do you want to know? 22 mentioning him or with him. 22 **Q.** Do you remember that you were told it was 16? 23 23 Q. So we've done a few already. I'm going to go Yes, in the Jets game.

24

25

Q.

Right. So my question is, in the Jets game,

did anybody make any efforts to deflate or reduce

24

25

through a few more now. Take a look at the Wells

report. And this is on page 77 on the Wells report.

#### Case 1:15-cy-05916-RMBs1CF Document 28-230 Filed 08/0/RECT/BRADY/KESSLERPage 96 1 footballs or were the footballs turned out to be 16? 1 that you did it yourself, but he's still going to 2 2 ask you about it." What happened at the Jets game? 3 A. The balls were overinflated. 3 **Q.** Did it in any way indicate that Q. Okay. And are you aware of any efforts at Mr. Jastremski did it or Mr. McNally or anyone else 4 4 the Jets game by anyone to try to deflate or take in your mind at the time if you remember when you 5 5 6 air out of balls at the Jets game? read it? Did you think that? 6 7 A. No. 7 A. No. 8 Q. Now, I would like you to look at, on page 86 8 Q. Okay. As you are sitting here today, I am 9 of the Wells report, we already covered this one; going to ask you to be very clear. Did you ever 9 10 I'm sorry. This is the one that says, "Tom was 10 give anyone any directions or instructions or 11 right and it's supposed to be 13." We already 11 authorization, anything, for the AFC Championship 12 covered that one, sorry. 12 Game that they should alter, change, lower the 13 Let's now go to page 105 of the Wells report. 13 pressure of footballs? 14 This is now the last one of all the ones that 14 A. Absolutely not. allegedly refer to you. And it says here, this is 15 15 Q. Okay. You never authorized it? John to you, this is 1/19/2015. So this is after A. No. 16 16 17 the AFC Championship Game, okay. 17 Q. Okay. Do you know somebody did it despite 18 And John wrote to you, "For your 18 your authorization? 19 information" -- "FYI, Dave will be picking your 19 A. I don't know what you mean. 20 20 brain later about it. He's not accusing me or **Q.** In other words, are you aware that, even know 21 anyone. Trying to get to the bottom of it. He 21 you didn't authorize it, they did it anyway? 22 22 A. No. knows it's unrealistic you did it yourself." 23 John then says, "Just a heads-up." 23 **Q.** Are you aware of that? 24 A. No. And you write, "No worries, bud. We are all 24 25 25 Q. Do you know that? good." DIRECT/BRADY/KESSLERPage 95 DIRECT/BRADY/KESSLERPage 97 What's your understanding of what they say 1 A. Absolutely not. I wasn't there. 2 **Q.** Okay. As you are sitting here right now, do

1 referring to here in these texts with you and 2 3 Mr. Jastremski?

picking my brain about it and that he wasn't

accusing him and he was trying to get to the bottom 6 7 of it and he knows it's unrealistic that I did it. 8 So that was just the heads-up. And I wrote back, "No worries bud, we are all good," because I 10 obviously didn't think we had anything to do with

A. That John was telling me that Dave would be

11

4

5

it. 12 Q. Now, when he wrote, "It's unrealistic you did 13 it yourself," did you have any knowledge that 14 Mr. Jastremski or Mr. McNally or anybody had done 15 anything to the balls? 16

A. No. 17

**Q.** Did you understand him to be saying here

18 that, well, I did it, but you could have done it?

19 Did you view it as a confession by Mr. Jastremski?

20 Is that your understanding of the text?

21 A. No.

22 **Q.** What did you understand he was saying here

23 when he said, "It's unrealistic you did it

24 yourself"?

That he knows, he knows, "It's unrealistic

you still believe Mr. Jastremski that when he told 3

4 you he didn't know anything about it and he didn't

5 do anything?

8

A. Yes. 6 7 **Q.** Has anyone in the Patriots organization,

anyone else ever told you that they did anything to 9 deflate the footballs on that day after they were

10 tested by the referees?

11 A. Absolutely not.

12 Q. One last question, Mr. Brady. There's a

13 policy at issue in this case that I will show you. 14 MR. KESSLER: What exhibit is that, John?

15 MR. AMOONA: I believe it's 115.

MR. KESSLER: 115. While we are doing that, 16

17 I'm just going to note for the Commissioner that Exhibit 95 is the Competition Committee report in 18

19 2006, which discusses the change and the reason for

20

21 And you will find it has nothing to do with 22

ball inflation or psi or anything like that. It's a

23 full Competition Committee report that's in the 24 record.

25

I assume, Dan, we agree all exhibits are in

#### Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 29 of 172 Case 1:00 Filed 08/04/15 Page 29 of 172 Page 100 1 evidence? 1 (Recess taken 11:23 a.m. to 11:38 a.m.) 2 2 MR. NASH: Yes. Let me -- we will check. We MR. LEVY: Any questions for the witness from 3 will get back to you on that, but I think that's 3 this side of the room? 4 4 MR. REISNER: I think we will be asking some right. 5 MR. KESSLER: That is our normal practice. 5 questions. 6 But I'm assuming all exhibits offered by both CROSS-EXAMINATION BY 6 7 parties would be in evidence. 7 MR. REISNER: 8 Q. 115, if you could look at Exhibit 115. This 8 Q. Good morning, Mr. Brady. 9 is a very thick exhibit. I think we will be able to 9 A. Good morning. 10 deal with this quickly. But look first at the cover 10 Q. Mr. Brady, did you hear Mr. Kessler say in 11 11 of it so you can see what the cover of it is. his opening statement with respect to text messages 12 Do you recall ever being given a copy of this 12 that you have produced exactly what Ted Wells asked 13 policy? I think the title is "Policy Manual For 13 for? Did you hear that? Member Clubs." A. Yes. 14 14 15 A. No. 15 **Q.** And you know that one of the things that the Q. Okay. Now, if you turn to the section on Paul, Weiss investigative team asked for was copies 16 16 17 "Competitive Integrity." I think that is, it's 17 of all text messages that you sent or received that 18 like, if you look in the index, you will see that 18 referred to ball deflation and ball inflation and 19 is -- I don't have a copy in front of me. 19 other topics identified as relevant, right? 20 MR. KESSLER: What is it, John, for the 20 A. Not sure what you are asking. 21 record? 21 **Q.** You knew that one of the things that the 22 MR. AMOONA: A2. 22 Paul, Weiss investigative team asked for was any 23 **Q.** Do you recall ever getting a copy of this 23 text messages that referred to ball inflation and 24 Competitive Integrity Policy? ball deflation, right? 24 25 A. No. 25 A. I'm not sure I was aware of exactly what was DIRECT/BRADY/KESSLER Page 99 CROSS/BRADY/REISNERPage 101 **Q.** You will see at the top it's directed -- who asked for other than what --1 1 does it say it's directed to? Do you see at the Q. Did you know that one of the requests was for 2 2 3 very top? Who is listed? 3 all text messages that related to ball inflation and 4 Here, I got it now. If you look at it, you ball deflation? will see at the very top, it says, "The following 5 A. I don't remember. 5 6 updated memorandum was sent on February 11, 2014, to 6 **Q.** And do you know whether any search was done 7 chief executives, club presidents, general managers 7 of text messages referring to ball inflation or ball 8 and head coaches from Commissioner Goodell regarding 8 deflation? A. Yes. 9 the Policy on Integrity in Game and Enforcement and 9 Q. Tell us what search was conducted for those 10 10 Competitive Rules." 11 Do you see that? 11 text messages as far as you know. 12 A. Yes. 12 A. Well, there was a forensics -- forensics team 13 Q. To your knowledge, was it ever sent to you as 13 that Steve had, I guess, hired to examine some 14 14 phones that I had. 15 A. Not that I can remember. 15 **Q.** So there was a forensic team that was hired 16 MR. KESSLER: I have no further questions. 16 to examine the text messages on phones that were 17 17 provided to that forensic team, correct? But if the Commissioner has any additional questions 18 or Mr. Levy, even before the NFL or at any time, we 18 A. Yes. 19 are certainly willing to answer anything the 19 **Q.** And those were phones that you used, correct? 20 Commissioner would like to know. 20 A. Yes. 21 COMMISSIONER GOODELL: Should we take a 21 **Q.** I want to direct your attention to what's in break? Are you okay? You want to take a break? evidence as NFLPA Exhibit 6, which is the 22 22 23 23 THE WITNESS: Sure. Supplemental Declaration of Brad Maryman. Do you 24 COMMISSIONER GOODELL: Why don't we take a 24 have that document in front of you? 25 quick break, ten minutes. 25 A. Yes. 29 of 172 sheets Page 98 to 101 of 457 06/25/2015 03:43:11 PM

# Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 30 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 30 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 30 of 172 Case 1:15-cv-05916-RMB-1CF Page 102

- 1 **Q.** And is Brad Maryman the forensic expert that
- 2 was engaged to review the telephones?
- 3 A. Yes.
- **Q.** And you see there is a reference in
- 5 paragraph 1 to, "Two mobile phone devices used by
- 6 Mr. Thomas Brady, Jr.," correct?
- 7 A. Yes.
- **Q.** And that refers to the mobile phone devices
- **9** that you provided for his review, correct?
- 10 A. Yes.
- **11 Q.** And directing your attention to paragraph 4
- 12 of the document, it refers to the first phone and
- 13 says that, "It's dates of active use were from
- **14** March 6, 2015 through April 8, 2015."
- **15** Do you see that?
- 16 A. Yes.
- 17 Q. And directing your attention to the next
- 18 paragraph which refers to the second phone review,
- 19 it says that, "The dates of active use were from
- 20 March 23, 2014 or May 23, 2014 through November 5,
- **21** 2014," correct?
- 22 A. Yes.
- **Q.** And those were the only two phones that were
- 24 provided to the forensic expert, correct?
- 25 A. Yes.

### CROSS/BRADY/REISNER Page 103

- **Q.** And do you see that there is a gap from
- 2 November 6, 2014 to March 5, 2015, in the phones
- 3 provided to and received by and reviewed by the
- 4 forensic consultant?
- 5 A. Yes.
- **Q.** And did you use a cell phone to make calls
- 7 and send and receive text messages during this gap
- 8 period of November 6, 2014, to March 5, 2015?
- 9 A. Yes.
- **Q.** And that gap period of November 6, 2014 to
- 11 March 5, 2015, includes the day of the AFC
- 12 Championship Game on January 18, 2015, correct?
- 13 A. Yes.
- **14 Q.** And that gap period also includes the period
- 15 immediately following the AFC Championship Game
- 16 after questions were raised about possible deflation
- **17** of footballs, correct?
- 18 A. Yes.
- **19 Q.** And that gap period also includes a number of
- 20 months leading up to the AFC Championship Game,
- 21 correct?
- 22 A. Yes.
- 23 Q. It includes almost all of November, right?
- 24 A. Yes.
- **Q.** All of December and January, all of February,

- 1 all the way up to March 5, 2015, correct?
- 2 A. Yes.
- **Q.** Do you know how many text messages you sent
- 4 and received during that gap period?
- 5 A. I don't.
- 6 MR. REISNER: I'm going to ask that NFLPA
- 7 Exhibit 1 be placed before Mr. Brady.
- **Q.** These are phone records that have been
- **9** produced by your counsel in connection with this
- **10** proceeding. And I want to direct your attention
- 11 specifically to the portion of this exhibit with the
- 12 Bates Stamp Numbers NFLPA Brady 00067 through NFL
- 13 Brady 00206.
- 14 And you will see that this document includes
- 15 99 pages of text phone records between November 6,
- 16 2014 and March 5, 2015 that list approximately 9,900
- 17 text messages that were sent or received during that
- 18 period.
- 19 So my question is: Do you know why a phone
- 20 that was active during this period was not provided
- 21 to your forensic expert for review?
- 22 A. We didn't have it.
- **Q.** Do you know where that phone is now?
- 24 A. No idea.
- **Q.** Are you certain that you disposed of that

### CROSS/BRADY/REISNERPage 105

- 1 phone?
- 2 A. I gave it to my assistant.
- **Q.** Do you know when you provided it to your
- 4 assistant?
- 5 A. I have no idea.
- **Q.** And when you provided it to your assistant,
- 7 did you provide it to your assistant for the purpose
- **8** of it being disposed of?
- 9 A. Yes.
- **10 Q.** Exhibit 96 submitted by the NFL refers --
- 11 it's a letter from your agent, Donald Yee, to
- **12** Commissioner Goodell, dated June 18th.
- MR. REISNER: Why don't we have that placed
- **14** before Mr. Brady.
- **15** THE WITNESS: Thank you.
- **Q.** And if you look at the first page of this
- 17 letter down toward the bottom, the letter states,
- 18 referring to you, "His custom and practice is also
- 19 to destroy SIM cards when he gets a new phone and to
- 20 destroy the actual device when he is done with the
- **21** phone."
- 22 Do you see that?
- 23 A. Yes.
- **Q.** And does that accurately reflect your
  - 25 practice?

### Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 31 of 172 Page 108 1 A. Yes. 1 A. Or that I had given to my assistant, whether 2 2 Q. And you say you don't recall precisely when he destroyed it or not. 3

- 3 you gave this phone to your assistant for destruction, correct? 4
- 5 A. Yes.
- 6 **Q.** But if you were following your practice, you
- 7 would have done it around the time that you got a
- 8 new phone, correct?
- 9 A. I'm not sure.
- 10 **Q.** Well, the letter that you just said
- 11 accurately describes your practice says you destroy
- 12 SIM cards when you get a new phone and "to destroy
- 13 the actual device when he is done with the phone,"
- 14 right?
- 15 A. My assistant does that.
- 16 **Q.** Right. So if your actual practice was being
- 17 followed, the phone would have been destroyed, the
- 18 phone you were using would have been destroyed
- 19 around the same time you started using another
- 20 phone, correct?
- 21 A. Right.
- 22 Q. And directing your attention back to the
- 23 Declaration of Mr. Maryman, NFLPA Exhibit 6.
- 24 A. Yeah.
- 25 Q. The date of active use of your new phone,

### CROSS/BRADY/REISNER Page 107

- according to paragraph 4 of his declaration, was
- 2 March 6, 2015, correct?
- 3 A. Yes.
- 4 Q. Do you remember anything else that happened
- on March 6, 2015? 5
- 6 A. No.
- 7 Q. Was March 6, 2015 the date that you were
- interviewed by Mr. Wells and his team? 8
- 9 A. Possibly; I don't know. Was it?
- 10 Q. If I represent to you that March 6, 2015 was
- 11 the date you were interviewed by Mr. Wells and his
- 12 team, you have no reason to doubt that, correct?
- 13 A. Right, correct.
- 14 Q. And because your forensic expert didn't have
- 15 access to the phone that was being used during what
- I'm calling this gap period, he couldn't review the
- 17 text messages, the content of the text messages that
- 18 were sent and received during this gap period,
- 19 correct?
- 20 A. I think we tried to provide him with
- 21 everything that we possibly could, you know, to that
- 22 point. If the phone was already taken out of
- 23 service, then it was --
- 24 Q. You couldn't provide him with a phone that
- had been destroyed, correct?

- **Q.** That you gave to your assistant for the
- purposes of destruction, correct? 4
- 5 A. Possibly.
- 6 **Q.** Was that your purpose? Was that your plan
- 7 when you provided the discarded phone to your
- 8 assistant, that your assistant would destroy the
- 9 phone?
- 10 A. That was kind of the normal routine.
- 11 **Q.** So that was your expectation when you
- 12 provided that phone to your assistant that the phone
- 13 would be, in fact, destroyed, correct?
- 14 A. Yes.
- 15 Q. And if you were following your ordinary
- 16 practice, that would have been around the beginning
- of the date of active use of the new phone that you 17
- 18 were using, correct?
- 19 A. Possibly.
- 20 **Q.** If you were following the practice described
- 21 in Mr. Yee's letter, that's what would have
- 22 occurred, correct?
- 23 A. Not sure.
  - Q. Okay. At the interview on March 6th by
- 25 Mr. Wells and his team, were you asked questions

### CROSS/BRADY/REISNERPage 109

- 1 about text messages that you sent and received?
- 2 A. Yes.

- 3 Q. And at that time, were you aware that there
- 4 was an outstanding request from the Paul, Weiss
- 5 investigative team for text messages?
- 6 The only thing that I knew about phone and
- 7 electronic communications was an e-mail that Don had
- 8 sent me at some point that said there was a request
- 9 to turn over your phone. There's really no reason
- 10 to do that and we are not going to provide them
- 11 that. And that's the last I thought of providing my
- 12 phone.
- 13 **Q.** Were you aware on or about February 28, 2015
- 14 that a request had been made to you for text
- 15 messages?
- 16 A. I think the only thing that I remember was
- 17 the e-mail from Don that said there's been a request
- made, along those lines, but we are not going to 18
- 19 allow, you know, them to take your personal cell
- 20 phone.
- 21 COMMISSIONER GOODELL: Was it around that
- 22 time?
- 23 THE WITNESS: I don't know; I'm not sure. I
- 24 don't remember when I got that message or --
- 25 Do you recall at your interview on March 6th

# Case 1:15-cv-05916-RMB-1CF Pocument 28-230 Filed 08/04/15 RABY/REISNERPage 112

- 1 by Mr. Wells and his team being told that the Paul,
- 2 Weiss team was seeking text messages?
- 3 A. I don't remember that.
- **Q.** Do you remember being told during that
- 5 interview that Mr. Wells didn't care whether he got
- 6 the actual phone or not and that he would rely on
- 7 your counsel to review the text messages and that
- 8 would satisfy his request for the text messages? Do
- 9 you recall hearing that discussion during the
- 10 March 6th interview?
- 11 A. I don't remember that.
- 12 Q. Mr. Kessler said that certain materials had
- 13 been provided by your counsel in connection with
- **14** this proceeding, correct?
- 15 A. Yes.
- **Q.** Do you know whether the materials produced by
- 17 your lawyers in connection with this hearing include
- 18 the content of any text messages?
- 19 A. I'm not sure.
- **Q.** So if I represented to you that the materials
- 21 produced by your counsel in this proceeding don't
- 22 include the content of any text messages, you have
- 23 no reason to doubt that, correct?
- 24 A. Correct.
- **Q.** And are you aware if the phone records

### CROSS/BRADY/REISNER Page 111

- 1 produced by your counsel show that, on February 7,
- 2 2015, you and John Jastremski exchanged three text
- 3 messages?
- 4 A. I'm not sure; I don't remember.
- **Q.** Let's look back at NFL Exhibit 96, the letter
- 6 from Mr. Yee to Commissioner Goodell. And I'm
- 7 directing your attention to page 3 of the letter in
- 8 the middle of the page.
- **9** After Number 2, Jastremski, toward the end of
- **10** that paragraph, it says, "The phone bills also show
- 11 three text message exchanges on February 7, 2015
- 12 between 8:21 p.m. and 8:33 p.m. These occurred
- 13 after the Super Bowl and were not mentioned or
- **14** referenced in the Wells report."
- **15** Do you see that?
- 16 A. What page are you on?
- **Q.** Page 3 of the letter.
- 18 A. Yeah.
- **19 Q.** Number 2 is Jastremski?
- 20 MR. KESSLER: Two in the bottom half, Tom.
- **Q.** Two in the bottom half.
- 22 A. Yes.
- **Q.** It says toward the end of that paragraph,
- 24 "The phone bills also show three text message
- 25 exchanges on February 7, 2015 between 8:21 p.m. and

- 1 8:33 p.m.," referring to text messages between you
- 2 and John Jastremski, correct?
- A. Yes.
- **Q.** And that period of February 7 is in that gap
- 5 period that the forensic examiner didn't have a
- 6 telephone for, right?
- 7 A. Right.

8

- **Q.** So we don't know what the content of those
- **9** text messages were, right?
- MR. KESSLER: Are you going to ask him? You
- 11 can ask him. He's right here.
- **Q.** So you haven't been able to produce the
- 13 content of those text messages, right?
- 14 A. No.
- **15** MR. KESSLER: Okay, I will have some
- 16 questions on redirect. You don't want to know the
- 17 content?
- MR. LEVY: Jeffrey.
- **19** MR. KESSLER: Sorry.
- **Q.** And directing your attention to that gap
- 21 period again from November 6, 2014, through
- 22 March 5th of 2015, do you know whether anyone has
- 23 reviewed those messages to determine whether there
- 24 were any messages referring to the deflation of
- 25 footballs or other topics that are responsive to the

### CROSS/BRADY/REISNERPage 113

- 1 Paul, Weiss requests?
- 2 A. If someone reviewed those?
- **Q.** Do you know whether anyone has been able to
- 4 review those messages to determine whether there are
- 5 any messages referring to the deflation of footballs
- 6 or other topics responsive to the Paul, Weiss
- **7** requests?
- 8 A. No.
- **9 Q.** Now, I want to ask you some questions about
- 10 your knowledge of the NFL rule with respect to the
- 11 inflation level of footballs.
- 12 A. Yes.
- 13 Q. You are presently aware that the NFL rules
- 14 require that footballs be inflated to between 12.5
- 15 and 13.5 pounds, correct?
- 16 A. Yes.
- 17 Q. And when did you become aware of that?
- 18 A. After the Jets game.
- **19 Q.** So during the period from when you entered
- 20 the League in 2000 through the beginning of the 2014
- 21 season, you were unaware that the NFL rule was that
- 22 balls should be inflated to between 12.5 and
- 23 13.5 pounds per square inch?
- 24 A. I think so.
- **Q.** And in 2006, you were involved in efforts to

#### Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Bage 33 of 172 1 change the rules regarding ball usage, correct? 1 pick some number that we were ultimately going to 2 2 A. Yes. set them to, so I said why don't we just set them 3 **Q.** Around the time that you were involved in 3 all to 12.5 and that was it. 4 **Q.** Is it fair to say that you prefer the 4 efforts to change the rules around the ball usage, did you read the NFL rules regarding the ball? 5 5 footballs inflated to a pressure level at the low 6 A. No, at least I don't remember reading it. 6 end of the range? 7 Q. Now, you have said publically that you like 7 A. Like I said, I never have thought about the 8 footballs to be inflated at a level of 12.5 psi, 8 ball, the air pressure in a football. The only time 9 correct? 9 I have ever thought about the air pressure in a 10 A. I said that after the championship game. 10 football was after the Jets game when they were at 11 11 **Q.** And so, how long have you known that 12.5 is the level of 16. 12 your preferred level of inflation? 12 So whenever I went to pick the game balls, I 13 A. After the Jets game. 13 never once in 15 years ever asked what the ball 14 Q. And how did you come to learn that 12.5 is 14 pressure was set at until after the Jet game. So your preferred level of inflation? 15 15 whether it's 12.5 or 12.6 or 12.7 or 12.8 or 12.9 or 16 A. We basically just picked a number at that 16 13, all the way up to the Colts game, I still think 17 point, I guess, historically, we had always set the 17 it's inconsequential to what the actual feel of a 18 pressure at -- before John Jastremski took over, it 18 grip of a football would be. 19 had been historically set at, like, 12.7 or 12.8. 19 So the fact that there could be a ball that's 20 20 set at 12.5 that I would disapprove of, there could That's what I learned after the fact. And I 21 think based on that Jets game, I said why don't we 21 be a ball that's 13 that I could approve of. It all 22 22 just set them at 12.5, bring this letter to the ref is depending on how the ball feels in my hand on 23 and I didn't think about it after that. 23 that particular day. 24 24 Q. You say you "just picked the number." Did So I don't think my liking to a football 25 25 you pick that number 12.5 for any particular reason? could be a very psychological thing. I just want to CROSS/BRADY/REISNER Page 115 CROSS/BRADY/REISNERPage 117 1 A. Ball pressure has been so inconsequential, I 1 know that there is consistency in what I'm playing with. 2 haven't even thought about that. I think at the end 2 3 3 COMMISSIONER GOODELL: You mentioned before of the day, the only time I thought about it was 4 after the Jet game and then after this was brought 4 John --5 5 up, after the championship game. It's never THE WITNESS: Right. something that has been on my radar, registered. I 6 COMMISSIONER GOODELL: -- he had set the 6 7 never said "psi." I don't think I even know what 7 equipment, the ball guy who prepared the balls? 8 8 that meant until after the championship game. It THE WITNESS: Yeah. 9 was never something that even crossed my mind. 9 COMMISSIONER GOODELL: Was it 12.7 or 12.8? 10 THE WITNESS: Yes. I think that's what they 10 **Q.** How did you come to pick 12.5 as the number? 11 A. We looked in the rule book. 11 set them to; I don't know. That's what I learned 12 **Q.** How did you come to pick 12.5 as the number 12 three weeks ago at Mr. Wells' hearing. 13 13 COMMISSIONER GOODELL: And so you were not for your preferred pressure level for the footballs? 14 A. I don't know how we exactly did it. I don't 14 aware of that at the time? 15 remember how we came to that other than the 15 THE WITNESS: No. 16 experience that I had in the Jet game when they were 16 COMMISSIONER GOODELL: You became aware of 17 17 grossly overinflated and then they showed me the that after the Jet game? 18 rule book or the copy of the page in the rule book. 18 THE WITNESS: After the Jet game, yeah. I 19 And I said, why don't we just set them here, 12.5, 19 didn't know historically what we had set them at 20 and not think about it ever again. 20 until before I think I met with Mr. Wells, and I 21 **Q.** Did you pick 12.5 because it was toward the 21 think John had told Mr. Goldberg. COMMISSIONER GOODELL: But after the Jet 22 lower end or the lower end of the permissible range? 22 23

A. I'm not sure why I picked it in particular,

other than having to put some -- I think John said

he did either 12.5 or 12.6. You know, we had to

24

23

24

25

game, you said you wanted it down to 12.5?

COMMISSIONER GOODELL: So you made that

THE WITNESS: Right, right.

# Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 34 of 172 Case 1:15-cv-05916-RMB-1CF Page 34 of 172 Case 1:15-cv-05916

1

- 1 determination after the Jet game, but before you met
- 2 with Ted Wells?
- 3 THE WITNESS: Yes.
- **Q.** So there came a time that you decided your
- **5** preferred pressure level was 12.5, correct?
- 6 A. Yes, after the Jet game.
- **Q.** And the reason that 12.5 was your preferred
- 8 pressure level was because you like the balls
- **9** inflated at the low end of the permissible range; is
- 10 that fair?
- 11 A. I'm not sure what you are asking.
- **Q.** You didn't just pick 12.5 randomly, correct?
- 13 A. No, we picked 12.5 because that was -- I
- 14 don't know why we picked 12.5. We could have picked
- 15 12.6. I don't even remember it being a part of that
- 16 conversation; I really don't. I don't remember
- 17 exactly how we set it other than I had this
- 18 experience at the Jet game where the balls were at
- 19 16.
- 20 I didn't like that. That's the first time I
- 21 ever complained. So when I say 12 and a half and 13
- 22 and a half, I think I made the determination let's
- 23 just set them at 12 and a half.
- **Q.** Did there come a time that you were aware
- 25 that Patriots personnel were asking to instruct the

### CROSS/BRADY/REISNER Page 119

- **1** referees to set the balls at 12.5?
- 2 A. After the Jet game, yes. When I told Dave
- 3 Schoenfeld and probably John, also, to bring that
- 4 highlighted sheet of paper to say, just so they knew
- 5 that -- like I said, I didn't know what the
- 6 protocols were for the referees.
- 7 So I didn't want to -- I want the referee
- 8 just to say, well, let's just inflate this to what I
- 9 like them inflated to which, I don't know, the
- 10 referee may say, well, I like them set at 13 or 13
- 11 and a half. I just wanted the referee to know that
- 12 this is what it said in the rule book. This is
- 13 Tom's preference going forward.
- **14 Q.** And your preference was 12.5, correct?
- 15 A. After the Jet game.
- **16 Q.** And that wasn't chosen randomly, but it was
- 17 chosen because you preferred that inflation level,
- **18** fair?
- 19 A. I never thought about the inflation level,
- 20 Lorin. I never in the history of my career, I never
- 21 thought about the inflation level of a ball.
- **Q.** You had made public statements in 2009, 2010
- 23 observing that some quarterbacks like the balls
- 24 heavily inflated and other quarterbacks like the
- 25 ball less inflated, hadn't you?

- A. I don't remember exactly what I said. But I
- 2 think that speaks to how I feel about the ball. I
- 3 know, for example, John Hillebrand, the guy who
- 4 previously broke in the balls, when he would
- 5 condition a ball, sometimes he would put them in the
- 6 sauna because he felt that would get the moisten in
- 7 the ball.
- 8 And when the ball would come to the sauna,
- 9 the ball would probably be grossly overinflated. So
- 10 however, you know, that experience of a really round
- 11 football, until it came back to room temperature or
- 12 whatever, ultimately I liked a ball that I could,
- 13 you know, grip really loosely.
- 14 And just to, I think the irony of everything
- 15 is I don't even squeeze a football. I think that's
- 16 something that's really important to know is I grip
- 17 the ball as loosely as possible. I don't even
- 18 squeeze the ball and I think that's why it's
- 19 impossible for me to probably tell the difference
- 20 between what 12.5 and 12.7 or 12.9 and 13 because
- 21 I'm just gripping it like a golf club.
- 22 I've tried to explain it. It's like a golf
- 23 club. You don't squeeze the golf club. You handle
- 24 it very gently. And that's the same way I hold a
- 25 football.

### CROSS/BRADY/REISNERPage 121

- **Q.** And a few years before the AFC Championship
- 2 Game in January of 2015, you had made public
- 3 statements to the fact that you like a deflated
- 4 ball, correct?
- 5 A. I think that was in context to a joke about
- 6 Rob Gostkowski spiking the football and how I felt
- 7 sorry for the football. And that's all I remember.
- **Q.** And you said you like a deflated ball,
- 9 correct?
- 10 A. Yeah, but I didn't think it was in the
- 11 context of what this hearing is all about, and
- 12 certainly never below a permissible range.
- 13 Q. In any event, you knew that Patriots
- **14** personnel were going to tell the refs to set the
- 15 balls at 12.5, correct?
- 16 A. After the Jet game.
- 17 Q. At some point, you knew that was the
- 18 instruction, correct?
- 19 A. Yes, after the Jet game.
- **Q.** And did you know who on behalf of the
- 21 Patriots was going to provide that instruction to
- 22 the referees?
- 23 A. No.
- **Q.** Did you know that the referees checked the
- 25 air pressure of the ball in the officials' locker

#### Case 1:15-cv-05916-RMB-1CF Document 28-230 Filed 08/04/15, Page 35 of 172 CROSS/BRADY/REISNER Page 124 1 Mr. McNally has said that he had been personally room? 2 A. I had no idea what the referees' processes 2 told by you of your inflation level preference 3 were. 3 during the 2014 season? Did you see that in the 4 **Q.** Did you know that the Patriots had an 4 report? 5 officials' locker room attendant on game days? 5 A. I saw it and I don't ever remember that. 6 A. No. 6 Q. I know that Mr. Kessler asked you a number of 7 Q. And what was your understanding as to how the 7 questions about telephone conversations you had with 8 referees would be informed that the preference was John Jastremski after the AFC Championship Game. I 8 9 for the balls to be inflated at 12.5? 9 want to ask you just a couple more questions about 10 A. I never, you know, really thought about it 10 that. 11 11 other than giving the, like I said, telling Dave to And I think it would be helpful if you had a 12 show this to the referee whenever they meet with the 12 copy of the report in front of you when I ask you 13 referees. I know the coaches meet with the referees 13 these questions. Do you have a copy of the report 14 before the games. 14 in front of you? 15 15 A. I don't think so. I know the referees come to the training room 16 from time to time. So whenever Dave would come in 16 **Q.** We have another one. 17 contact with a referee or John, make sure they tell 17 THE WITNESS: Thank you. 18 them that this is what we wanted. 18 COMMISSIONER GOODELL: Are we done with all 19 COMMISSIONER GOODELL: Just so I'm clear, 19 this other stuff? 20 20 this whatever you wanted to show them was the rule? MR. KESSLER: I think what we used you can 21 THE WITNESS: Was that photocopy of the rule 21 move away. 22 22 highlighted that the balls can be put between 12.5 Q. So I will ask you, Mr. Brady, to turn to 23 and 13.5. So we put them at 12.5 and I didn't want 23 page 101 of the report. At the bottom of the page, 24 them to just arbitrarily add significant air to 24 you will see there's a Roman Numeral VI that says, 25 25 them. "Communications following the AFC Championship Game" CROSS/BRADY/REISNER Page 123 CROSS/BRADY/REISNERPage 125 1 **Q.** And before the AFC Championship Game, you say 1 and there's a reference to January 19th, the day you didn't know Jim McNally's name, but you knew who 2 2 after the AFC Championship Game. 3 he was, correct? 3 It says, "Jastremski and Brady spoke to each 4 A. I knew his face. 4 other on the telephone four times on January 19th **Q.** And did you know what his responsibilities 5 for a total of 25 minutes and two seconds. They 5 6 were? 6 also exchanged a total of 12 messages." 7 A. He worked in the equipment room and that's a 7 Do you have any reason to think that that's 8 lot of the game-day employees that work, that come 8 not accurate? in for, you know, game days, there's a lot more 9 9 Α. No. 10 people around the stadium when there's a game than 10 **Q.** And do you know whether in the six months 11 obviously when there's a normal day of the week, 11 prior to January 19, 2015, you had ever communicated 12 practice. 12 with John Jastremski by text? 13 Q. What was your understanding, if any, 13 A. I'm not sure. Q. And do you know whether in the six months 14 regarding his responsibilities to bring the balls to 14 15 the ref before the game? 15 prior to January 19, 2015, you had ever communicated 16 A. I wasn't sure. 16 with John Jastremski by telephone? 17 17 Q. And did you see in the investigative report, A. Yes. 18 the Paul, Weiss investigative report that 18 Q. How many times? 19 Mr. Jastremski has stated that you knew Mr. McNally 19 A. I think once or twice. 20 and his role as an officials' locker room attendant? 20 COMMISSIONER GOODELL: Just so I am clear,

35 of 172 sheets Page 122 to 125 of 457 06/25/2015 03:43:11 PM

21

22

23

24

25

once or twice in the six months prior to the

**Q.** If you turn to page 102, there is a reference

a text message sent by John Jastremski to you on

THE WITNESS: Yes.

Championship Game?

21

22

23

24

25

Did you see that in the report?

**Q.** And do you think that's inaccurate?

And did you read in the report that

A. Yes.

A. Yes.

#### Case 1:15-cv-05916-RMB-1CF Document 28-230 Filed 08/04/15 Bage 36 of 172 CROSS/BRADY/REISNER Page 128 January 19th at 7:25 in the morning. It says, "Call 1 COMMISSIONER GOODELL: Can I ask, Tom, 2 me when you get a second." whether he had ever been in the quarterback room And the report says underneath that, "Brady 3 with you before? called Jastremski less than one minute later and 4 THE WITNESS: I don't remember. There was a they spoke for 13 minutes and four seconds." 5 lot of renovations done to the stadium. I don't know if he was in the old quarterback room. But I Do you see that? 6 7 would say the quarterback room is in, like, the Q. And do you have any reason to believe that's 8 hallway. I mean, you probably walk by this room 50 inaccurate? 9 times a day. It's, like, right on Main Street. A. No. 10 Q. But if Mr. Jastremski says that is the first **Q.** Do you recall what you discussed during that 11 time he was ever in the quarterback room, you have 13 minutes and four seconds with John Jastremski? 12 no reason to doubt that, correct? A. I don't remember exactly what we talked 13 A. No. Q. And do you recall what the two of you about. 14 Q. So let me ask you to turn to page 104 of the 15 discussed in the quarterback room? A. I don't remember. I was getting ready, like report. Under number 3, it says, "Approximately two 16 and a half hours after they first spoke on the 17 I said, I was watching a lot of film on the Seattle morning of January 19th, Brady followed up with 18 stuff. The computers weren't ready to bring home, Jastremski by text messages." 19 so I decided to stay at the office. And I was Do you see that? 20 thinking about the Super Bowl and figured I would A. Yes. 21 text him to say, Come see me here rather than, like Q. And do you have any reason to question the 22 I said, me to go track him down at that time of the timing of the text messages referred there, the text 23 starting at 9:51 in the morning? 24 Q. Incidentally, if that was Mr. Jastremski's 25 A. No. first time in the quarterback room, about how many CROSS/BRADY/REISNER Page 127 CROSS/BRADY/REISNERPage 129 Q. Let me ask you to turn the page, look at years had he been with the Patriots up to that 1 page 105. At the top of the page, Mr. Kessler 2 point, if you know? already asked you about those January 19th text 3 A. 12. messages. And then the next box down lower is the 4 **Q.** Let me ask you to turn the page. text exchange where you asked John Jastremski to, A. Can I say something else? There was a lot of 5 "Come to the QB room." renovation done to our stadium in the last year. So 6 Do you see that? 7 that particular quarterback room has been around for A. Yes. one year. We moved in at the start of last season. 8 Q. And when Mr. Jastremski came to the 9 So, anyway --10 quarterback room, did you have a discussion with **Q.** Directing your attention to page 106 of the him? 11 report. Under the heading number 4 that says, A. Yes. 12 "Jastremski speaks again with both McNally and Q. And about how long did that discussion last? 13 Brady," there's a reference at the bottom of that page and it says, "At 5:21, Brady sent Jastremski A. I don't remember; probably pretty brief. 14 Q. To your knowledge, had Mr. Jastremski ever 15 the following text message." been in the quarterback room before? 16 And this is still on January 19, 2015 at 17 A. I have no idea. 5:21, a text messages that says, from you to John Q. Do you ever recall him being in the 18 Jastremski, "If you get a sec, give me a call." quarterback room before? 19 Do you see that? A. I don't remember. I'm not -- I don't know 20 A. Yes. where he has been or where he's not been. 21 Q. And if you turn the page to 107, it says, **Q.** If he says that's the first time he's ever 22 "Jastremski called Brady 11 seconds later. And over 23 been in the quarterback room, you have no basis to the course of three calls, they were on the dispute that, do you? 24 telephone for 11 minutes and 58 seconds." THE WITNESS: No. 25 Do you see that?

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

	Case 1:15-cv-05916-RMB-JCF Document	<del>28-2</del>	30 Filed 08/04/15 Page 37 of 172 CROSS/BRADY/REISNER Page 132
			<u> </u>
1	A. Yes.	1	And this is the morning of January 20th. Do
2	Q. And the third entry of those three block	2	you recall what you discussed with John Jastremski
3	messages is, "Telephone call," again, on	3	during that six-minute-and-21-second call?
4	January 19th, at 5:30 between you and John	4	A. I don't remember exactly what we talked
5	Jastremski that lasted 11 minutes and one second.	5	about.
6	Do you see that?	6	Q. And down lower on the page at 1:08, it says,
7	A. Yes.	7	"At 5:13 on January 20th, Brady again checked in
8	Q. And do you recall what you and John	8	with Jastremski by text messages."
9	Jastremski discussed during that	9	And it refers to a text messages sent by you
10	11-minutes-and-one-second telephone call?	10	to John Jastremski at 5:13 on January 20th that
11	A. I don't remember exactly what we discussed.	11	says, "You doing good?"
12	But like I said, there was two things that were	12	Do you see that?
13	happening. One was the allegations which we were	13	A. Yes.
14	facing and the second was getting ready for the	14	Q. Do you have any reason to doubt the timing of
15	Super Bowl, which both of those have never happened	15	that text message?
16	before. So me talking to him about those things	16	A. No.
17	that were unprecedented, you know, he was the person	17	<b>Q.</b> And if you turn the page to page 109, at the
18	that I would be communicating with.	18	top of the page, it says, "Jastremski called Brady
19	Q. And you see down a little lower on page 107	19	less than 15 minutes later and they spoke for three
20	there's a reference to, "Later that evening, McNally	20	minutes and 34 seconds."
21	called Jastremski twice and they spoke for	21	Do you recall what you discussed with John
22	13 minutes and 34 seconds."	22	Jastremski during that referenced phone call?
23 24	And there are references to two different telephone conversations between McNally and	24	A. I don't remember exactly what we talked about, but like I said, this was an unprecedented
25	Jastremski at 7:30 and then again at 10:26, the	25	time for myself and for John going to the Super
	CROSS/BRADY/REISNER Page 131		CROSS/BRADY/REISNER Page 133
1	· · · · · · · · · · · · · · · · · · ·	1	<u> </u>
1 2	first call lasting eight minutes and 24 seconds, the	1 2	Bowl. I also told you that there were, I would say
1 2 3	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.	1 2 3	Bowl. I also told you that there were, I would say during the football season, I'm basically at the
2	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of	2	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.
2	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.	2	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple
2 3 4	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was	2 3 4	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.
2 3 4 5	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously	2 3 4 5	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to
2 3 4 5 6	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?	2 3 4 5 6	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would
2 3 4 5 6 7	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.	2 3 4 5 6 7	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.
2 3 4 5 6 7 8	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next	2 3 4 5 6 7 8	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the
2 3 4 5 6 7 8 9	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next day, January 20, 2015. The report says, "Jastremski	2 3 4 5 6 7 8 9	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the season, I'm at the stadium every day.
2 3 4 5 6 7 8 9	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next day, January 20, 2015. The report says, "Jastremski and Brady spoke to each other twice by telephone on	2 3 4 5 6 7 8 9	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the season, I'm at the stadium every day.  COMMISSIONER GOODELL: So you weren't in the
2 3 4 5 6 7 8 9 10	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next day, January 20, 2015. The report says, "Jastremski and Brady spoke to each other twice by telephone on January 20, 2015 for a total of nine minutes and	2 3 4 5 6 7 8 9 10	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the season, I'm at the stadium every day.  COMMISSIONER GOODELL: So you weren't in the office or at the stadium on the 19th or 20th?
2 3 4 5 6 7 8 9 10 11 12	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next day, January 20, 2015. The report says, "Jastremski and Brady spoke to each other twice by telephone on January 20, 2015 for a total of nine minutes and 55 seconds."	2 3 4 5 6 7 8 9 10 11	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the season, I'm at the stadium every day.  COMMISSIONER GOODELL: So you weren't in the office or at the stadium on the 19th or 20th?  THE WITNESS: I think the day after the game,
2 3 4 5 6 7 8 9 10 11 12 13	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next day, January 20, 2015. The report says, "Jastremski and Brady spoke to each other twice by telephone on January 20, 2015 for a total of nine minutes and 55 seconds."  Do you see that?	2 3 4 5 6 7 8 9 10 11 12 13	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the season, I'm at the stadium every day.  COMMISSIONER GOODELL: So you weren't in the office or at the stadium on the 19th or 20th?  THE WITNESS: I think the day after the game, we went in and then I think we had two days after
2 3 4 5 6 7 8 9 10 11 12 13 14	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next day, January 20, 2015. The report says, "Jastremski and Brady spoke to each other twice by telephone on January 20, 2015 for a total of nine minutes and 55 seconds."  Do you see that?  A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the season, I'm at the stadium every day.  COMMISSIONER GOODELL: So you weren't in the office or at the stadium on the 19th or 20th?  THE WITNESS: I think the day after the game, we went in and then I think we had two days after that. So the Tuesday, Wednesday we were off. And I
2 3 4 5 6 7 8 9 10 11 12 13 14 15	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next day, January 20, 2015. The report says, "Jastremski and Brady spoke to each other twice by telephone on January 20, 2015 for a total of nine minutes and 55 seconds."  Do you see that?  A. Yes.  Q. And do you have any reason to doubt the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the season, I'm at the stadium every day.  COMMISSIONER GOODELL: So you weren't in the office or at the stadium on the 19th or 20th?  THE WITNESS: I think the day after the game, we went in and then I think we had two days after that. So the Tuesday, Wednesday we were off. And I think we practiced Thursday, Friday, Saturday.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next day, January 20, 2015. The report says, "Jastremski and Brady spoke to each other twice by telephone on January 20, 2015 for a total of nine minutes and 55 seconds."  Do you see that?  A. Yes.  Q. And do you have any reason to doubt the timing described in the report there?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the season, I'm at the stadium every day.  COMMISSIONER GOODELL: So you weren't in the office or at the stadium on the 19th or 20th?  THE WITNESS: I think the day after the game, we went in and then I think we had two days after that. So the Tuesday, Wednesday we were off. And I think we practiced Thursday, Friday, Saturday.  COMMISSIONER GOODELL: And you wouldn't have
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next day, January 20, 2015. The report says, "Jastremski and Brady spoke to each other twice by telephone on January 20, 2015 for a total of nine minutes and 55 seconds."  Do you see that?  A. Yes.  Q. And do you have any reason to doubt the timing described in the report there?  A. No.  Q. And there's a text in the middle of the page from John Jastremski to you at 7:24 in the morning.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the season, I'm at the stadium every day.  COMMISSIONER GOODELL: So you weren't in the office or at the stadium on the 19th or 20th?  THE WITNESS: I think the day after the game, we went in and then I think we had two days after that. So the Tuesday, Wednesday we were off. And I think we practiced Thursday, Friday, Saturday.  COMMISSIONER GOODELL: And you wouldn't have gone in?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next day, January 20, 2015. The report says, "Jastremski and Brady spoke to each other twice by telephone on January 20, 2015 for a total of nine minutes and 55 seconds."  Do you see that?  A. Yes.  Q. And do you have any reason to doubt the timing described in the report there?  A. No.  Q. And there's a text in the middle of the page from John Jastremski to you at 7:24 in the morning. It says, "Call me when you get a second."	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the season, I'm at the stadium every day.  COMMISSIONER GOODELL: So you weren't in the office or at the stadium on the 19th or 20th?  THE WITNESS: I think the day after the game, we went in and then I think we had two days after that. So the Tuesday, Wednesday we were off. And I think we practiced Thursday, Friday, Saturday.  COMMISSIONER GOODELL: And you wouldn't have gone in?  THE WITNESS: I don't think I went in. I think I just stayed at home and worked those two days.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next day, January 20, 2015. The report says, "Jastremski and Brady spoke to each other twice by telephone on January 20, 2015 for a total of nine minutes and 55 seconds."  Do you see that?  A. Yes.  Q. And do you have any reason to doubt the timing described in the report there?  A. No.  Q. And there's a text in the middle of the page from John Jastremski to you at 7:24 in the morning. It says, "Call me when you get a second."  Do you see that?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the season, I'm at the stadium every day.  COMMISSIONER GOODELL: So you weren't in the office or at the stadium on the 19th or 20th?  THE WITNESS: I think the day after the game, we went in and then I think we had two days after that. So the Tuesday, Wednesday we were off. And I think we practiced Thursday, Friday, Saturday.  COMMISSIONER GOODELL: And you wouldn't have gone in?  THE WITNESS: I don't think I went in. I think I just stayed at home and worked those two days.  Q. And directing your attention to the bottom of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next day, January 20, 2015. The report says, "Jastremski and Brady spoke to each other twice by telephone on January 20, 2015 for a total of nine minutes and 55 seconds."  Do you see that?  A. Yes.  Q. And do you have any reason to doubt the timing described in the report there?  A. No.  Q. And there's a text in the middle of the page from John Jastremski to you at 7:24 in the morning. It says, "Call me when you get a second."  Do you see that?  A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the season, I'm at the stadium every day.  COMMISSIONER GOODELL: So you weren't in the office or at the stadium on the 19th or 20th?  THE WITNESS: I think the day after the game, we went in and then I think we had two days after that. So the Tuesday, Wednesday we were off. And I think we practiced Thursday, Friday, Saturday.  COMMISSIONER GOODELL: And you wouldn't have gone in?  THE WITNESS: I don't think I went in. I think I just stayed at home and worked those two days.  Q. And directing your attention to the bottom of page 109, there's a block referring to a text
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next day, January 20, 2015. The report says, "Jastremski and Brady spoke to each other twice by telephone on January 20, 2015 for a total of nine minutes and 55 seconds."  Do you see that?  A. Yes.  Q. And do you have any reason to doubt the timing described in the report there?  A. No.  Q. And there's a text in the middle of the page from John Jastremski to you at 7:24 in the morning. It says, "Call me when you get a second."  Do you see that?  A. Yes.  Q. And the report says underneath, "Brady called	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the season, I'm at the stadium every day.  COMMISSIONER GOODELL: So you weren't in the office or at the stadium on the 19th or 20th?  THE WITNESS: I think the day after the game, we went in and then I think we had two days after that. So the Tuesday, Wednesday we were off. And I think we practiced Thursday, Friday, Saturday.  COMMISSIONER GOODELL: And you wouldn't have gone in?  THE WITNESS: I don't think I went in. I think I just stayed at home and worked those two days.  Q. And directing your attention to the bottom of page 109, there's a block referring to a text message at 7:27 in the morning on January 21st from
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next day, January 20, 2015. The report says, "Jastremski and Brady spoke to each other twice by telephone on January 20, 2015 for a total of nine minutes and 55 seconds."  Do you see that?  A. Yes.  Q. And do you have any reason to doubt the timing described in the report there?  A. No.  Q. And there's a text in the middle of the page from John Jastremski to you at 7:24 in the morning. It says, "Call me when you get a second."  Do you see that?  A. Yes.  Q. And the report says underneath, "Brady called Jastremski within the hour and they spoke for six	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the season, I'm at the stadium every day.  COMMISSIONER GOODELL: So you weren't in the office or at the stadium on the 19th or 20th?  THE WITNESS: I think the day after the game, we went in and then I think we had two days after that. So the Tuesday, Wednesday we were off. And I think we practiced Thursday, Friday, Saturday.  COMMISSIONER GOODELL: And you wouldn't have gone in?  THE WITNESS: I don't think I went in. I think I just stayed at home and worked those two days.  Q. And directing your attention to the bottom of page 109, there's a block referring to a text message at 7:27 in the morning on January 21st from you to John Jastremski.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	first call lasting eight minutes and 24 seconds, the next call lasting five minutes and 10 seconds.  Did Mr. Jastremski tell you during any of your telephone conversations that he was simultaneously in contact or close to simultaneously in contact with Mr. McNally?  A. No.  Q. Turn the page to page 108. This is the next day, January 20, 2015. The report says, "Jastremski and Brady spoke to each other twice by telephone on January 20, 2015 for a total of nine minutes and 55 seconds."  Do you see that?  A. Yes.  Q. And do you have any reason to doubt the timing described in the report there?  A. No.  Q. And there's a text in the middle of the page from John Jastremski to you at 7:24 in the morning. It says, "Call me when you get a second."  Do you see that?  A. Yes.  Q. And the report says underneath, "Brady called	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Bowl. I also told you that there were, I would say during the football season, I'm basically at the football stadium every day.  On this particular week, there was a couple days that we had off, so if I did need to communicate with John about the footballs, I would do it from home and I wouldn't be at the stadium.  So it would be hard to do. But typically during the season, I'm at the stadium every day.  COMMISSIONER GOODELL: So you weren't in the office or at the stadium on the 19th or 20th?  THE WITNESS: I think the day after the game, we went in and then I think we had two days after that. So the Tuesday, Wednesday we were off. And I think we practiced Thursday, Friday, Saturday.  COMMISSIONER GOODELL: And you wouldn't have gone in?  THE WITNESS: I don't think I went in. I think I just stayed at home and worked those two days.  Q. And directing your attention to the bottom of page 109, there's a block referring to a text message at 7:27 in the morning on January 21st from you to John Jastremski.  It says, "Hey, bud, give me a call when you

#### Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Bage 38 of 172 1 get a sec." 1 report, you are asking? 2 2 And the report states underneath that, "For MR. REISNER: No. 3 the third straight morning, Jastremski and Brady 3 **Q.** The text messages referring to "inflation," "deflation," "needles," "cash," "the deflator," spoke by phone, this time for 13 minutes and 47 4 4 seconds starting at 7:38 a.m. They spoke again for 5 5 "haven't gone to ESPN yet," none of that concerned 6 seven minutes and five seconds at 11:45:16 a.m." you? 6 7 7 Do you see that? MR. KESSLER: I have an objection. It's not 8 A. Yes. 8 established this witness ever saw those until he 9 Q. Do you have any reason to doubt the timing of 9 read the Wells report. 10 the phone calls referenced in the report? 10 THE WITNESS: Correct. 11 A. No. 11 MR. KESSLER: I want to know what he's asking 12 **Q.** Do you recall the substance of either of 12 him. 13 13 those two telephone calls referenced in the report? COMMISSIONER GOODELL: I think he asked him 14 A. I don't remember exactly what we talked 14 when he read the report, did he have a concern, I 15 think is what I heard. about, but like I said, there were two things 15 happening simultaneously and I really wanted John 16 16 MR. REISNER: Yes. 17 focused other than what he needed to get 17 **Q.** When you saw those text messages? A. Yes. 18 accomplished with the footballs, so I was trying to 18 19 make sure that he was good and that, you know, he 19 COMMISSIONER GOODELL: In the Wells report? 20 20 MR. REISNER: In the Wells report. felt responsible for, you know, the attacks. 21 A. Yes. And I was trying to make sure that he was 21 22 composed so that he could do his job over the course 22 Q. Did they raise any concerns for you? 23 of the next two weeks. 23 A. About what? About that I was involved? Is 24 24 **Q.** Have you seen the text messages referenced in that what I was concerned about? 25 25 the report sent between Jim McNally and John Q. Any concerns at all. Did they raise concerns CROSS/BRADY/REISNER Page 135 CROSS/BRADY/REISNERPage 137 Jastremski referring to inflating footballs, 1 1 that something improper was happening? 2 deflating footballs, "The only thing deflating 2 A. I think that you can interpret however you 3 Sunday is his passer rating"? 3 want to interpret them. Me, personally, John said 4 Have you seen those text messages? 4 he didn't do it. I believe John. I never 5 authorized anybody to do it. A. In the report, yes. 5 6 6 **Q.** And have you seen the text message referenced I never talked about doing it, so I don't 7 in the report in which Jim McNally before the 7 know what else I can say. I'm on the field playing. 8 2014/2015 season, he refers to himself as "the 8 He said he didn't do it. I believed him. I can't 9 deflator" and says he "hasn't gone to ESPN yet"? 9 speculate to something that I was never there for 10 10 Have you seen that one? that I never saw that I never talked about. 11 11 A. Yes. COMMISSIONER GOODELL: So you asked him if he 12 **Q.** And when you saw those text messages in the 12 had done it? 13 report, did they give you any concern? 13 THE WITNESS: Yes. 14 A. I'm not really sure what the context of those 14 COMMISSIONER GOODELL: And he said no? 15 text messages were between those two guys, so it's 15 THE WITNESS: Yes, he said he didn't do it. 16 hard for me to speculate on what they talked about, 16 COMMISSIONER GOODELL: Did you ask him if he 17 17 the kind of language they use with one another. So knew anybody else that had done it? 18 obviously, those text messages didn't involve me. 18 THE WITNESS: No, because I obviously didn't 19 I didn't know the spirit of their 19 know that there was a -- that Mr. McNally -- I 20 relationship, so I think it was kind of unfair for 20 didn't know what his responsibilities were at the 21 me to speculate that they did something wrong when 21 time. So John said, "We didn't do anything." 22 they told me they didn't do anything wrong. 22 Q. Just to be clear, when you saw the text 23 23 messages that I just described --**Q.** So it didn't raise any concerns for you at 24 all? 24 A. Yes. 25 MR. KESSLER: Wait. After he read the 25 Q. -- in the report, did they raise any concerns 06/25/2015 03:43:11 PM Page 134 to 137 of 457 38 of 172 sheets

### Case 1:15-cv-05916-RMB-JCF Document 48-230 Filed 08/04/15 Page 39 of 172 REDIRECT/BRADY/RESSLERPage 140 1 to you at all that something improper had happened? 1 Q. Right. And you didn't have any relationship 2 2 A. I said it's not right for me to speculate on with Mr. McNally; is that fair? 3 that. I don't feel like I was a part of those text 3 A. I mean, he worked in the equipment room. So you know, other than saying "hi" or, "Good to see messages. So, and I don't know what the 4 4 you" or something like that. 5 relationship of those two were. Those were not text 5 messages that I sent. I was not a part of those. I 6 **Q.** Did you ever discuss footballs or deflation 6 7 was not privy to those until after the report came 7 or psi or anything like that with Mr. McNally? 8 8 A. No. out. I don't know what to --9 Q. Had you seen those text messages during the 9 **Q.** Okay. Now, then it talks about 10 interview -- withdrawn. Let me start again. 10 Mr. Jastremski and that's what counsel asked you 11 During your interview by the Paul, Weiss team about. And it says, "All of the text messages 12 on March 6th, you were shown copies of those text 12 identified in the Wells report between Brady and 13 messages, correct? 13 Jastremski show up on the phone records." 14 14 A. Yes. And then it says, "The bills reflect an 15 15 **Q.** And when you saw the copies of those text additional text message from Jastremski to Brady at messages during your interview -the same time as the others reflected in the Wells 16 16 17 A. Yeah. 17 report." 18 **Q.** -- did they raise any concerns, in your mind, 18 And then it says that, "The phone bills also 19 that something improper was happening? 19 show three text messages exchanged on February 7, 20 20 2015 between 8:21 and 8:33." A. At the time, like I said, that was the first 21 I saw them. So it wasn't in the context of the 21 You see that? 22 report as it's framed. Like I said, it's hard for 22 A. Yes. 23 me to speculate. Alls I can go by is what they told 23 **Q.** And those are the ones that counsel asked you 24 me, so. 24 to identify, correct? 25 25 A. Yes. MR. REISNER: Could we have one moment. REDIRECT/BRADY/KESSLER Page 139 REDIRECT/BRADY/KESSLER Page 141 1 Nothing further at this time. 1 **Q.** So I'm now going to ask you the question that 2 MR. KESSLER: I just have a very few 2 he didn't ask you. In that text message, do you 3 3 recall whether there was any discussion of deflation questions on redirect. 4 REDIRECT EXAMINATION BY 4 or pressure or the Wells investigation or anything else that you recall in those text messages? 5 MR. KESSLER: 5 6 6 A. Absolutely not. **Q.** So you were shown a copy of the NFL 1639? 7 MR. KESSLER: Give this back to the witness. 7 Q. Okay. For all the text messages you've ever 8 **Q.** This was the letter from Mr. Yee in June that sent Mr. Jastremski, okay, including all the ones 8 9 you asked about. And I'm going to direct your 9 that were identified on January 19th, January 20th, 10 attention to page 3 that you were asked about. It's 10 January 21st, did you ever discuss with him -- did 11 the second reference to Mr. Jastremski. This is 11 he ever tell you that he deflated any footballs? 12 talking about the text messages. 12 A. No. 13 Q. Did he ever tell you that anyone else ever 13 A. Yes. 14 Q. And so, you will see that this says, "Result 14 deflated any footballs? 15 of search for text messages during relevant time 15 A. Absolutely not. period based on AT&T phone records." 16 16 **Q.** Did you ever discuss with him any effort to 17 Do you see that? 17 conceal any deflation of footballs from 18 A. Yes. 18 investigators or anything else? 19 Q. And the first one says, "McNally, there are 19 A. Absolutely not. 20 no text messages between Brady and McNally." 20 **Q.** What was your main focus from after the AFC

11

21

22

23

24

25

Does that recall with your recollection that

you never texted Mr. McNally for anything?

Correct, well just by face.

Q. In fact, you didn't know him?

A. Correct.

21

22

23

24

25

you mostly focused on?

mostly be focused on?

A. The Super Bowl.

Championship Game until the Super Bowl? What were

Q. Okay. What did you want Mr. Jastremski to

### Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 40 of 172 REDIRECT/BRADY/REISNERPage 142 1 A. The Super Bowl. 1 **Q.** And did you discuss with him any concerns 2 Q. Did you tell him that? 2 that he might have about questions being raised on 3 A. Absolutely. 3 that topic? 4 **Q.** Were you concerned that he might get A. It's possible, yes. 4 distracted by these other allegations being made? Q. What do you recall about that, if anything? 5 5 6 A. Absolutely. A. Well, that they would be directed at him and 6 7 Q. Okay. And was that something you would have 7 that he was the person that prepared the footballs 8 discussed with him, he needs to focus on the Super and like I said, the initial report was that none of 8 9 Bowl? 9 the Colts' balls were deflated, but the Patriots, 10 A. Absolutely. 10 all the Patriots' balls were. Q. Now, do you recall that during this period of 11 11 So I think trying to figure out what happened 12 time, this two-week period of time, even 12 was certainly my concern and trying to figure out, 13 Coach Belichick was distracted by this and had a 13 you know, what could be -- possibly could have news conference about ball deflation? 14 14 happened to those balls. Q. And Mr. Kessler asked you about one of the 15 A. Yes. 15 Q. Okay. How long have you known e-mails that you exchanged during that time 16 16 17 Coach Belichick? 17 period -- pardon me -- one of the text messages that A. 16 years. 18 18 you exchanged during that time period. That's on 19 Q. Okay. When he is focused on the Super Bowl, page 105. 19 20 does he usually get distracted by anything else 20 The e-mail that John Jastremski sent --21 other than Super Bowl game preparation? 21 pardon me -- it's a text that John Jastremski sent 22 A. No. 22 to you on January 19th at 10:54 in the morning, the 23 Q. Was it unusual for him to get up and have a 23 one that says, "FYI, Dave will be picking your brain press conference about something else other than 24 24 later about it. He's not accusing me or anyone, 25 25 Super Bowl? just trying to get to the bottom of it. He knows RECROSS/BRADY/REISNER Page 143 RECROSS/BRADY/REISNERPage 145 it's unrealistic you did it yourself." A. Yes. 1 1 Q. Did Coach Belichick ever tell you that he 2 2 Around that time, were you aware that Dave 3 knew anything else about ball deflation? Schoenfeld had been tasked with the responsibility 3 4 to look into the ball deflation issues? 5 A. What do you mean? **Q.** Anyone else in the Patriots organization ever 5 6 tell you that? 6 Q. Were you aware that Dave Schoenfeld --7 A. No. 7 8 8 **Q.** -- had been tasked the responsibility by MR. KESSLER: I don't have any further 9 questions. 9 somebody at the Patriots to look into the ball 10 MR. REISNER: I just have very briefly one or 10 deflation issues? A. No. 11 11 two. 12 RECROSS-EXAMINATION BY 12 Q. And during the text exchanges referenced 13 MR. REISNER: 13 there on January 19th, this was around the time that 14 Q. During the telephone calls that you had with 14 you were having telephone calls with John Jastremski 15 John Jastremski on January 19th and 20th and 21st 15 as well, correct? A. Yes. that I asked you about, at that time, you knew that 16 questions had been raised about the inflation levels 17 17 Q. And you say that it is possible that you and 18 of the footballs used during the AFC Championship John Jastremski were discussing the concerns that 18 19 Game, correct? 19 had been raised about ball deflation levels, right? A. Yes. A. Yes. 20 20 21 **Q.** And during these telephone calls with 21 MR. REISNER: Nothing further. MR. KESSLER: Nothing from me. Perhaps the 22 Mr. Jastremski, did you discuss with him the fact 22 23 that questions had been raised about the inflation 23 Commissioner has some questions? 24 levels of the footballs? 24 COMMISSIONER GOODELL: I do have a couple.

25

Can you go back to, I believe you said you changed

A. It's possible, yes.

THE WITNESS: Yes.  COMMISSIONER GOODELL: Or Friday and that  COMMISSIONER GOODELL: Or Friday afternoon,  MR. KESSLER: Anything else?  COMMISSIONER GOODELL: Thank you, Tom  Appreciate it. Thank you.  MR. KESSLER: Should we take our lunch bre  now?  COMMISSIONER GOODELL: I think we should  the did you ever walk through to observe the  MR. KESSLER: Let's keep it short, I guess.  THE WITNESS: Yes.  THE WITNESS: Yes.  THE WITNESS: Yes.  ARECROSS/BRADY/REISNER Page 148  THE WITNESS: Yeah. But once yes. Once  picked the balls, that's ultimately the ones I want  To be able to play with.  COMMISSIONER GOODELL: Okay, I am good  COMMISSIONER GOODELL: Okay, I am good  MR. KESSLER: Anything else?  COMMISSIONER GOODELL: Thank you, Tom  Appreciate it. Thank you.  MR. KESSLER: Should we take our lunch bre  mow?  COMMISSIONER GOODELL: I think we should  MR. KESSLER: Let's keep it short, I guess.  THE WITNESS: Yes.  THE WITNESS: Yes.  MR. COMMISSIONER GOODELL: Gregg can handle that  COMMISSIONER GOODELL: Gregg can handle that  THE WITNESS: Yes.  MR. LEVY: Yeah. How much time would you	ık
2 you prepared the balls? 3 THE WITNESS: Yes. 4 COMMISSIONER GOODELL: On Friday afternoon, 5 essentially 6 THE WITNESS: Yes. 7 COMMISSIONER GOODELL: you made that 8 change? 9 THE WITNESS: Yes. 10 COMMISSIONER GOODELL: Did you guys go into 11 the did you ever walk through to observe the 12 stadium on Saturday? 13 THE WITNESS: Yes. 14 COMMISSIONER GOODELL: You did? 15 picked the balls, that's ultimately the ones I want 16 to be able to play with. 16 COMMISSIONER GOODELL: Okay, I am good 16 COMMISSIONER GOODELL: Thank you, Tom 17 Appreciate it. Thank you. 18 MR. KESSLER: Should we take our lunch bre 19 now? 10 COMMISSIONER GOODELL: I think we should 11 MR. KESSLER: Let's keep it short, I guess. 12 I assume you guys, we have food here, so let's say a half hour? 13 half hour? 14 COMMISSIONER GOODELL: Gregg can handle	ık
THE WITNESS: Yes.  4 COMMISSIONER GOODELL: On Friday afternoon, 5 essentially 6 THE WITNESS: Yes. 7 COMMISSIONER GOODELL: you made that 8 change? 9 THE WITNESS: Yes. 9 THE WITNESS: Yes. 10 COMMISSIONER GOODELL: Did you guys go into 11 the did you ever walk through to observe the 12 stadium on Saturday? 13 THE WITNESS: Yes. 14 COMMISSIONER GOODELL: You did? 15 MR. KESSLER: Anything else? 6 COMMISSIONER GOODELL: Thank you, Tom 7 Appreciate it. Thank you. 8 MR. KESSLER: Should we take our lunch bre 9 now? 10 COMMISSIONER GOODELL: I think we should the did you ever walk through to observe the 11 MR. KESSLER: Let's keep it short, I guess. 12 I assume you guys, we have food here, so let's say of the half hour? 13 half hour? 14 COMMISSIONER GOODELL: Gregg can handle	ık
4 COMMISSIONER GOODELL: On Friday afternoon, 5 essentially 6 THE WITNESS: Yes. 7 COMMISSIONER GOODELL: you made that 8 change? 9 THE WITNESS: Yes. 10 COMMISSIONER GOODELL: Did you guys go into 11 the did you ever walk through to observe the 12 stadium on Saturday? 13 THE WITNESS: Yes. 14 COMMISSIONER GOODELL: You did? 15 MR. KESSLER: Anything else? 6 COMMISSIONER GOODELL: Thank you, Tom 7 Appreciate it. Thank you. 8 MR. KESSLER: Should we take our lunch bre 9 now? 10 COMMISSIONER GOODELL: I think we should the did you ever walk through to observe the 11 MR. KESSLER: Let's keep it short, I guess. 12 I assume you guys, we have food here, so let's say a half hour? 13 half hour? 14 COMMISSIONER GOODELL: Gregg can handle	ık
5 essentially 6 THE WITNESS: Yes. 7 COMMISSIONER GOODELL: you made that 8 change? 8 MR. KESSLER: Anything else? 7 Appreciate it. Thank you. 8 MR. KESSLER: Should we take our lunch bre 9 THE WITNESS: Yes. 9 now? 10 COMMISSIONER GOODELL: Did you guys go into 10 COMMISSIONER GOODELL: I think we should 11 the did you ever walk through to observe the 11 MR. KESSLER: Let's keep it short, I guess. 12 stadium on Saturday? 13 THE WITNESS: Yes. 14 COMMISSIONER GOODELL: You did? 15 MR. KESSLER: Anything else? 6 COMMISSIONER GOODELL: Thank you, Tom 7 Appreciate it. Thank you. 8 MR. KESSLER: Should we take our lunch bre 9 now? 10 COMMISSIONER GOODELL: I think we should 11 MR. KESSLER: Let's keep it short, I guess. 11 I assume you guys, we have food here, so let's say a 13 half hour? 12 COMMISSIONER GOODELL: Gregg can handle	ık
6 COMMISSIONER GOODELL: Thank you, Tom 7 COMMISSIONER GOODELL: you made that 8 change? 9 THE WITNESS: Yes. 10 COMMISSIONER GOODELL: Did you guys go into 11 the did you ever walk through to observe the 12 stadium on Saturday? 13 THE WITNESS: Yes. 14 COMMISSIONER GOODELL: You did? 16 COMMISSIONER GOODELL: Thank you, Tom 7 Appreciate it. Thank you. 8 MR. KESSLER: Should we take our lunch bre 9 now? 10 COMMISSIONER GOODELL: I think we should 11 MR. KESSLER: Let's keep it short, I guess. 12 I assume you guys, we have food here, so let's say and the stadium of the stadi	ık
7 COMMISSIONER GOODELL: you made that 8 change? 8 MR. KESSLER: Should we take our lunch bre 9 THE WITNESS: Yes. 9 now? 10 COMMISSIONER GOODELL: Did you guys go into 11 the did you ever walk through to observe the 12 stadium on Saturday? 13 THE WITNESS: Yes. 14 COMMISSIONER GOODELL: You did? 17 Appreciate it. Thank you. 18 MR. KESSLER: Should we take our lunch bre 19 now? 10 COMMISSIONER GOODELL: I think we should the commissioner of the	ık
8 MR. KESSLER: Should we take our lunch bre 9 THE WITNESS: Yes. 9 now? 10 COMMISSIONER GOODELL: Did you guys go into 11 the did you ever walk through to observe the 12 stadium on Saturday? 13 THE WITNESS: Yes. 14 COMMISSIONER GOODELL: You did? 18 MR. KESSLER: Should we take our lunch bre 10 COMMISSIONER GOODELL: I think we should 11 MR. KESSLER: Let's keep it short, I guess. 12 I assume you guys, we have food here, so let's say and the should have take our lunch bre 11 MR. KESSLER: Should we take our lunch bre 12 COMMISSIONER GOODELL: I think we should have take our lunch bre 13 COMMISSIONER GOODELL: I think we should have take our lunch bre 14 COMMISSIONER GOODELL: I think we should have take our lunch bre 15 Description:	
9 now?  10 COMMISSIONER GOODELL: Did you guys go into 11 the did you ever walk through to observe the 12 stadium on Saturday? 13 THE WITNESS: Yes. 14 COMMISSIONER GOODELL: You did? 19 now? 10 COMMISSIONER GOODELL: I think we should MR. KESSLER: Let's keep it short, I guess. 11 assume you guys, we have food here, so let's say a half hour? 12 COMMISSIONER GOODELL: You did? 13 COMMISSIONER GOODELL: Gregg can handle	
10 COMMISSIONER GOODELL: Did you guys go into 11 the did you ever walk through to observe the 12 stadium on Saturday? 13 THE WITNESS: Yes. 14 COMMISSIONER GOODELL: Did you guys go into 16 COMMISSIONER GOODELL: I think we should the should should the	
11the did you ever walk through to observe the11MR. KESSLER: Let's keep it short, I guess.12stadium on Saturday?12I assume you guys, we have food here, so let's say at the food here.13THE WITNESS: Yes.13half hour?14COMMISSIONER GOODELL: You did?14COMMISSIONER GOODELL: Gregg can handle	
12stadium on Saturday?12I assume you guys, we have food here, so let's say at 1313THE WITNESS: Yes.13half hour?14COMMISSIONER GOODELL: You did?14COMMISSIONER GOODELL: Gregg can handle	
13 THE WITNESS: Yes. 14 COMMISSIONER GOODELL: You did? 15 half hour? 16 COMMISSIONER GOODELL: Gregg can handle	
14 COMMISSIONER GOODELL: You did? 14 COMMISSIONER GOODELL: Gregg can handl	, that
	) that
L <b>15</b> THE WITNESS: Yes. L <b>15</b> MR. LEVY: Yeah. How much time would you	, uidli
, '	
16 COMMISSIONER GOODELL: Yes? 16 like?	
17 THE WITNESS: Yes. 17 MR. NASH: Whatever is your preference.	
18 COMMISSIONER GOODELL: And did you guys 18 COMMISSIONER GOODELL: He's saying	
19 communicate by phone on that change or was it at the	
20 office? 20 MR. KESSLER: Let's try a half hour just so	
21 THE WITNESS: At the office. 21 that we can make sure	
22 COMMISSIONER GOODELL: It was all at the 22 MR. NASH: Who is your next witness?	
23 office or the stadium?  23 MR. KESSLER: Well, we are going to move in	.0
24 THE WITNESS: Yes.  24 evidence, our declarations and then we are going to	
25 COMMISSIONER GOODELL: And that process went 25 call the expert, Mr. Snyder.	
RECROSS/BRADY/REISNER Page 147 RECROSS/BRADY/REISNER Page 149  1 basically Friday, Saturday and then Sunday you  1 COMMISSIONER GOODELL: So let's come ba	rk at
<ul> <li>1 basically Friday, Saturday and then Sunday you</li> <li>2 approved or didn't approve of the balls,</li> <li>2 five minutes after 1:00.</li> </ul>	.K at
3 essentially?  3 (Recess taken 12:36 p.m. to 1:07 p.m.)	
4 THE WITNESS: Yes. 4 MR. LEVY: We are back on the record.	
5 COMMISSIONER GOODELL: Would the equipment 5 MR. KESSLER: So at this point, to the degree	
6 managers do anything without your approval, 6 that it's required, we will move into evidence. The	
7 essentially, that you are aware of with the 7 Declaration of Robert Kraft, which I think speaks	
8 footballs, just specifically the footballs?  8 for itself. And we do urge you, Commissioner, to	
9 THE WITNESS: I have 9 read that declaration.	
10 COMMISSIONER GOODELL: I know it's a tough 10 Essentially, it's Mr. Kraft telling you about	
11 question, but I'm trying to understand would they 11 his experience with Mr. Brady and what Mr. Brady ha	S
12 you cared about the feel, they knew that from the 12 told him about this situation, which is essentially	
13 what he told you under oath today and how Mr. Kraf	
14 THE WITNESS: Yes. 14 values his honesty and integrity in this matter.	
15 COMMISSIONER GOODELL: So would they have 15 And so we move that declaration in.	
16 done anything that was inconsistent with what you 16 And then the second declaration is two	
17 wanted with the footballs? 17 declarations from Mr. Maryman, which are the	
18 THE WITNESS: I don't think so, and that's 18 declarations that explain how the e-mail search was	
19 why I believe they didn't do anything, because I 19 done on Mr. Brady's computers, and no incriminating	
20 know that, you know, how particular I am with the 20 files were found, although the search was done in	
21 way that the ball feels. So I don't think that 21 exactly the way it was requested by Mr. Wells. And	
22 anyone would tamper with the ball. 22 what was done forensically for the two telephones	
23 COMMISSIONER GOODELL: So it would be done 23 that existed and, in addition, the telephone logs	
24 consistent with the way you wanted balls, 24 which have been moved into evidence. So that now	
25 essentially? 25 all should go before you.	

- **1** MR. LEVY: Hearing no objection, they will be
- 2 admitted into evidence.
- 3 MR. KESSLER: Thank you. I'm now going to
- 4 pass the baton to Mr. Greenspan who is going to
- **5** present the testimony of Mr. Snyder.
- **6** MR. GREENSPAN: The NFLPA calls as its next
- 7 witness, Edward Snyder.
- 8 EDWARD SNYDER, called as a witness,
- **9** having been first duly sworn by a Notary Public of
- 10 the State of New York, was examined and testified as
- 11 follows:
- 12 DIRECT EXAMINATION BY
- **13** MR. GREENSPAN:
- **14 Q.** Would you state your full name for the
- 15 record.
- 16 A. My name is Edward A. Snyder.
- **17 Q.** And your current position?
  - A. I am Dean of the Yale School of Management.
- 19 I am also a professor of economics and management at
- 20 Yale.

- **Q.** And your position prior to your time at Yale?
- 22 A. I have been at Yale for four years, and prior
- 23 to that, the previous ten years, I was at University
- 24 of Chicago, where I was also Dean and I was the
- 25 George Schultz Professor of Economics.

DIRECT/SNYDER/GREENSPAN Page 151

- **Q.** And prior to the University of Chicago, where
- 2 did you work?
- 3 A. I was Dean at University of Virginia, Darden
- 4 School, and previously to that, I was at University
- 5 of Michigan Business School where I was Senior
- 6 Associate Dean.
- **Q.** And what has been the focus of your teaching
- 8 and your scholarship, Dean Snyder?
- 9 A. Well, I'm an economist. And I have a
- 10 specialty in what's called industrial organization.
- 11 And throughout my academic career, I've done a lot
- 12 of empirical work and with that empirical work, I
- 13 study data, collect data and apply statistical
- 14 models and analyses to data.
- **15 Q.** Let me stop you and focus on your statistical
- 16 work, your statistical experience. And if you could
- 17 elaborate in terms of the type of work you've done,
- 18 type of industries you've covered.
- 19 A. Well, the type of work I did, to take the
- 20 first part of this, it started when I did my Ph.D.
- 21 thesis. I studied criminal antitrust enforcement
- 22 and I collected data on the change in criminal
- 23 penalties from the misdemeanor level to the felony
- 24 level. These were original data. And I collected
- 25 all the -- all the enforcement data over two decades

- 1 and applied statistical analyses to them.
- 2 And then after that, I worked with former
- 3 Assistant Attorney General of the U.S. Department of
- 4 Justice's Antitrust Division, Tom Kuiper. We did
- 5 three studies involving analysis of private
- 6 antitrust enforcement, also original data
- 7 application of statistical analysis to those data.
- 8 In terms of the industries, the other part of
- 9 your question, I've studied virtually -- well, it's
- 10 a real wide range of industries, and in large part
- 11 through my consulting.
- **Q.** Let me ask you, have you taught classes
- 13 involving study of data, application of statistics?
- 14 A. Yes. One of the ones that is noteworthy is
- 15 when I was at Chicago, over a nine-year period I
- 16 co-taught with Gary Becker, Nobel Prize winner in
- 17 economics, and Kevin Murphy, Clark Medalist in
- 18 economics. That's the award given to the top
- 19 economist under 40.
- 20 Obviously I was -- I enjoyed teaching with
- 21 those two luminaries. But the nature of that course
- 22 was what I call a project course. And we supervised
- 23 teams of Master's students who went out and
- 24 collected data.

25

And over the course of that nine-year period,

DIRECT/SNYDER/GREENSPANPage 153

- 1 we supervised about 100 Master's-level projects that
- 2 involved the collection of data and the application
- 3 of statistical analysis to data for the purpose of
- 4 developing insights on public policy and business.
- **Q.** Okay. How about work in litigation? Have
- 6 you served as an expert witness previously?
- 7 A. Yes. I left the antitrust division in 1985
- 8 and since then, so it's been about 30 years, I've
- 9 done about one major litigation a year. So it adds
- 10 up to about 30.
- **Q.** And through the course of those litigation,
- **12** you mentioned consulting work; would you identify
- 13 just sort of a broad brush overview of some specific
- 14 industries in which you've examined data, dealt with
- **15** statistical analyses?
- 16 A. Sure. It's a wide range. It's
- 17 pharmaceuticals. It's steel. It's paper,
- 18 publication paper. It's infant formula. It's the
- 19 LCD screens that we all use now. It's computer
- 20 chips. It's stock exchanges. It's financial data.
- 21 It's vitamins, virtually all these different slices
- 22 of the economy. And each one of those engagements
- 23 involves data.
- **Q.** Let's talk for a moment about your work as
- 25 dean. You have been a business school dean for

- **1** about 20 years. What do your responsibilities --
- 2 what have your responsibilities as dean entailed?
- 3 A. As dean, I, of course, represent the
- 4 institution. I am responsible for the people and
- 5 programs. I view myself as sort of the person who
- 6 develops the strategy for the school and I'm
- 7 responsible for the finances of the school. And I
- 8 keep in mind the quality of the work that's done and
- 9 the integrity of the institution.
- 10 Q. You mentioned you have responsibility for the
- 11 people of the school. If you could speak more about
- 12 those responsibilities as dean.
- 13 A. Well, I'm an HR person, too. So the school
- 14 connects with a lot of people. The ones who were
- 15 immediate to the community are the students and the
- 16 faculty and the professional staff.
- 17 And, of course, people come and go, so
- 18 there's a question of who gets admitted, who gets
- 19 fired, who gets let go, who gets promoted, who gets
- 20 evaluated positively, who gets evaluated negatively.
- 21 In some cases there are disciplinary actions
- 22 and all those things, I'm not involved in every
- 23 decision, but I have to manage the processes
- associated with those and in some cases, they docome up to me.
  - DIRECT/SNYDER/GREENSPAN Page 155
- 1 Q. Thanks.
- 2 So turning to the matter at hand, what were
- 3 you asked to do? What was your assignment in this
- 4 matter?
- 5 A. My assignment focuses on the work done by
- 6 Exponent, the science firm brought in to evaluate
- 7 the question of potential deflation of the Patriots'
- ${\bf 8}\quad \hbox{balls during the AFC Championship Game.}$
- **9 Q.** Okay. Did you have any help, anyone work
- 10 with you on this assignment?
- 11 A. Yes. I had a team. Professor Michael Moore
- 12 from Northwestern University, a long-time colleague
- 13 of mine, Pierre Cremieux, Principal Manager at
- 14 Analysis Group, other members of the Analysis Group
- 15 people, Dr. Jimmy Royer, Mr. Paul Greenberg, and
- 16 that constituted the team.
  - COMMISSIONER GOODELL: Were these people in
- 18 your consultancy group or were these selected by
- **19** you?

- **20** THE WITNESS: It's an interesting question.
- 21 I'm not sure how much information you want,
- 22 Mr. Commissioner.
- 23 COMMISSIONER GOODELL: Not a lot. I was
- 24 hoping for "yes" or "no."
- **25** THE WITNESS: Professor Moore and I started

- 1 doing this really just out of our own interest. And
- 2 then we got linked up to Analysis Group and they
- 3 were doing some work independently. And I don't --
- 4 COMMISSIONER GOODELL: So you have worked
- 5 together before?
- **6** THE WITNESS: I have worked with Analysis
- **7** Group and I have known Professor Moore for 35 years.
- **Q.** So these individuals, do they have experience
- **9** in statistical work?
- 10 A. Yes, it's a deep, deep bench in terms of
- 11 expertise.
- **Q.** Was there anyone else that you consulted with
- 13 in the course of this project?
- 14 A. Yes. I consulted with Mr. Dirk Duffner. He
- 15 has a Master's Degree from Stanford. He's a former
- 16 Exponent employee, worked there for decades. And
- 17 now he runs his own firm.
- **Q.** And this is Exhibit 196 we have up. What was
- **19** the purpose of your consulting with Mr. Duffner?
- 20 A. Let me just preface that by saying the
- 21 following: Exponent did both scientific analyses,
- 22 as well as statistical analyses. I was not hired or
- 23 retained and my assignment doesn't deal with the
- 24 science. I took my science as a given, their
- 25 scientific framework as a given. I focused on the
  - DIRECT/SNYDER/GREENSPANPage 157
  - statistics.

- 2 In the course of making adjustments to the
- 3 statistics, and correcting for errors, and
- 4 evaluating alternative assumptions, however, I
- 5 wanted to make sure that I wasn't doing anything
- 6 wrong in terms of scientific principles.
- 7 So out of an abundance of caution, I checked
- 8 with Mr. Duffner to make sure that indeed what I was
- 9 doing was consistent with scientific principles.
- **10 Q.** How did you go about evaluating Exponent's
- 11 work? And by that, what I mean in general terms,
- **12** what did you do?
- 13 A. Well, in very general terms, I identified
- 14 what data they had collected, how they had organized
- 15 the data and rearranged the data. And I will
- 16 explain this, I identified their major statistical
- 17 analyses.
- 18 One has already been referred to earlier
- 19 today, the focuses on the question of the difference
- 20 in the extent of average pressure drops. So I
- 21 identified these major statistical analyses. I then
- 22 identified how they did the analyses. Did they make
- $\,$  23  $\,$  any errors, what assumptions were they making when  $\,$
- 24 they conducted these analyses.
- 25 I just pause on the last point. I was

- 1 particularly focused on that last point because it's
- 2 important for me as a researcher and evaluator of
- 3 data when I see alternative assumptions, plausible
- 4 alternatives, if the findings change, then the
- 5 results are not reliable. So I paid attention to
- 6 all those steps.
- 7 Q. So having done that work, having applied that
- 8 principle, and again in general terms, what was your
- 9 conclusion about the work performed, the statistical
- 10 work performed by Exponent?
- 11 A. Right, given the scientific framework that
- 12 they provided, I can follow what they've done. Our
- 13 team actually replicated their key findings. They
- 14 made errors. When I evaluate alternative
- 15 assumptions, their findings change, so the bottom
- 16 line is their results are simply not reliable.
- 17 Q. Okay. So let's go, let's start with your
- 18 slide deck. The first slide shows your three key
- 19 findings. And if you could just sort of walk the
- 20 Commissioner through each of the three key findings
- 21 that you made and that we will elaborate on.
- 22 A. So first finding is that their analysis of
- 23 the difference in differences, the analysis of the
- 24 pressure drops and the difference in the average
- 25 pressure drops is wrong because Exponent did not

DIRECT/SNYDER/GREENSPAN Page 159

- 1 include timing and the effects of timing in that analysis.
- 2

8

- 3 Secondly, Exponent looked at the variation
- 4 and the measurements between the Patriots' balls and
- 5 the Colts' balls at halftime. They compared the
- 6 variances. And despite conceding that there was no
- 7 statistically significant difference between the
  - two, they went ahead and drew conclusions, but those
- 9 conclusions are improper.
- 10 And, last, and this goes to the issue of
- 11 alternative assumptions, as well as error, if the
- 12 logo gauge was used to measure the Patriots' balls
- 13 before the game, then given what the framework that
- 14 Exponent provides us with scientifically, and if the
- 15 analysis is done correctly, eight of the eleven
- 16 Patriots' balls are above the relevant scientific
- 17 threshold.
- 18 **Q.** Let's turn to your first finding. We will go
- 19 to the next slide and start at the beginning, which
- 20 is the raw data. And if you would explain, what do
- 21 we see here on this table, which is Exponent's
- 22 Table 1.
- 23 A. This is -- this is Exponent. This is taken
- 24 directly from the Exponent report. These are the
- halftime data. And you will see that there were

- eleven Patriots' balls that were measured. They 1
- 2 were measured by Official Blakeman and
- 3 Official Prioleau. There were four Colts' balls
- 4 measured, again, by those two officials, and those
- 5 are the data that they focused on.
- 6 **Q.** What do we know about the sequence of the
- 7 measurements and the sequence of events at halftime?
- 8 A. After the balls were brought in, the
- 9 Patriots' balls were measured first and the Colts'
- 10 balls were measured after. How much after, there's
- 11 uncertainty about.
- 12 Q. Let's take a look at the next slide, this is
- 13 Exponent's Table 2. And you will see here, Dean
- 14 Snyder, the differences. There's a row inserted
- 15 "Patriots average" and "Colts average." If you
- 16 could discuss the importance of those figures to the
- analysis here. 17
- 18 A. Well, this is sort of a baby step along the
- 19 way in doing the analysis of difference in
- 20 differences. One thing to note, though, and this
- 21 motivated Exponent to make some assumptions and
- 22 reorganize the data, you will see that the Patriots
- 23 average on the right-hand column exceeds the
- 24 left-hand column, 11.49 compared to 11.11.
  - For the Colts average, it's reversed. This

DIRECT/SNYDER/GREENSPANPage 161

- 1 column exceeds this column (indicating). This led
- Exponent to believe that the two officials switched
- 3 gauges between the time that they measured the
- 4 Patriots' balls and when they measured the Colts'
- balls. 5

- 6 So one of the things that Exponent did going
- 7 back to the raw data was that they then said, well,
- maybe it's better to organize the data by what they 8
- 9 presume to be the measurements by gauge.
- 10 **Q.** Let's take a look at the next slide, which is
- 11 Exponent's Scenario 3. It's their Table 5. And
- 12 what's happening here in Scenario 3 relative to that
- 13 raw data?
- 14 A. Well, now, they have organized the data by
- 15 gauge. And the Patriots averages don't change.
- 16 They have also made one more adjustment. They
- 17 believe that Colts ball number 3, the measurement
- 18 was transcribed incorrectly.
- 19 So if you imagine the two officials calling
- 20 out the numbers, somehow the person writing down the
- 21 numbers put them in the wrong column. So they
- 22 switched those. And now we have got revised
- 23 averages for the Colts. And 12.95 for what they
- 24 presume to be all the logo measurements compared to
- 25 12.5 for the non-logo.

- 1 And one of the things I should point out here
  - is there is a belief that the logo gauge, and this
- 3 was supported by further testing by Exponent, reads
- 4 higher. It consistently reads higher. And that's
- 5 how they have organized the these data into what
- 6 they call their data Scenario Number 3.
- **Q.** Why have you chosen to focus on their data
- 8 Scenario Number 3?
- 9 A. Well, the short answer is they do. This is
- 10 the data scenario that they pay the most attention
- 11 to.

- 12 Q. Okay. Let's look at the next slide. And
- 13 just taking a look at the quote at the top of the
- 14 page, this is from the Exponent report. What does
- 15 that tell you about the place of this analysis
- **16** within the overall Exponent work?
- 17 A. Well, when they say, "This is the most
- 18 significant," what they are saying is of all the
- 19 work that they have done to analyze these results,
- 20 this is what I call their core analysis, this is
- 21 their most significant analysis. And it goes to
- 22 this basic question, did the Patriots' balls have a
- 23 bigger drop in pressure than the Colts' balls?
- **Q.** Table 6, this is also at the bottom of your
- 25 slide, this is from the Exponent report. If you

# DIRECT/SNYDER/GREENSPAN Page 163

- 1 could again walk us through the table and tell us
- 2 what Exponent is looking at with those figures.
- 3 A. So you have got the averages now based on the
- 4 different gauges. What they do is identify the drop
- 5 compared to the starting values, the pre-game
- 6 starting values that are presumed to be for the
- 7 Colts' balls, 13.0 psi and 12.5 for the Patriots'
- 8 psi.
- 9 And compared to those starting values, you
- 10 can then identify the difference in the drops by
- 11 gauge. And those two numbers, about .7 psi says
- 12 that the Patriots' balls dropped by .7 psi more than
- 13 the Colts' balls.
- **14 Q.** Okay. Let's go to the next slide. And if
- 15 here, if you could describe the approach taken by
- **16** Exponent in comparing the relative drops in pressure
- 17 of the Patriots' balls and the Colts' balls.
- 18 A. Okay. So here is their approach. It's
- 19 called a difference in differences analysis. It's a
- 20 standard kind of statistical approach. Here it
- 21 really could be difference in average drops, just to
- 22 put it in the context of what we are studying. And
- 23 we have already covered the first bullet point.
- 24 They have identified the differences between
- 25 pre-game and average halftime psi's.

- 1 The second bullet point should be emphasized
- 2 here. The theory of the Exponent analysis, their
- 3 most significant analysis is that the Colts' balls
- 4 are a control for the Patriots' balls.
- **Q.** What does that mean, "a control"?
- 6 A. Well, let's just go slowly. I mean, it's the
- 7 Patriots' balls that are being suspected of being
- 8 deflated outside the rules. The Colts' balls are
- 9 not being suspected of being deflated outside the
- 10 rules. So the Colts' balls end up being a reference
- 11 or a benchmark for what would have happened
- 12 naturally. That's the idea of a control.
- 13 Q. Okay. And Exponent continues. They inquire
- 14 whether your slide continues. They look at whether
- 15 the greater drop was statistically significant.
- **16** Could you explain the concept of "statistical
- 17 significance."

18

25

- A. These terms don't role off the tongue.
- 19 Statistical significance here is, okay, you may see
- 20 a difference in these averages, but you also
- 21 realize, you have got a really puny control group.
- 22 It's four Colts' balls. We have got measurement of
- 23 them. We can't just say any time there's a
- 24 difference, it's reliable.
  - So what Exponent did was that they adopted

# DIRECT/SNYDER/GREENSPANPage 165

- 1 the standard, which is statistical significance at
- 2 the five-percent level. It's common in science.
- 3 It's common in social science. That's the standard
- 4 that Exponent did. It basically says, when we see a
- 5 difference, when we see a difference, we want to
- 6 make sure it's not due to chance.
- **Q.** In your experience, if a statistical
- **8** threshold, here, the .05 is chosen, and the analysis
- **9** doesn't have results that cross that threshold, what
- 10 does that tell you about the analysis?
- 11 A. It's not an analysis on which you should
- 12 derive findings, reach conclusions. It's not
- 13 statistically significant. It doesn't -- what you
- 14 see in scientific studies and whether it's testing
- 15 by the FDA or careful protocols, you have
- 16 statistical significance as the step that then is
- 17 the basis for conclusions.
- **Q.** What if the statistical significance is
- **19** really close to that .05, but it doesn't cross that
- 20 threshold, but it's on the margins?
- 21 A. You can't -- you can't go down that path,
- 22 because then you keep saying, what if it's sort of
- 23 close? Then you keep moving the standard. It's,
- 24 you know, it's the standard. Since we are in this
- 25 group, I will say it's like you don't score a

- 1 touchdown unless you break the plane. You can't say
- 2 it's close.
- **Q.** Let's take a look at the next slide. And
- 4 this is now Exponent's conclusions about statistical
- 5 significance. And could you explain what's
- 6 happening here including what a p-value is.
- 7 A. So this, again, is Exponent's table, Table 8.
- 8 They are reporting the results, focusing on the
- 9 question of statistical significance for four
- 10 different data scenarios.
- 11 Three is their preferred, but here they are
- 12 reporting all of them. And in the table you see
- 13 referred to here, the p-value's calculated using
- 14 Exponent's statistical model. They developed a
- 15 statistical model to evaluate the difference in
- 16 difference.
- 17 And they are saying-based on our statistical
- 18 model, the difference in average pressure drops is
- 19 statistically significant. So the p-values that
- 20 they report are well below .05; .05 is the five
- 21 percent benchmark. And they are saying our results
- 22 are statistically significant.
- **Q.** Because they are smaller than -- the p-value
- **24** is smaller than .05?
- 25 A. Correct.
  - DIRECT/SNYDER/GREENSPAN Page 167
- **1 Q.** And what is the conclusion that they draw
- **2** from this statistical significance?
- 3 A. This is the standard protocol. When you get
- 4 statistically significant results, then you draw
- 5 conclusions. So what's bolded here is, okay, we
- 6 have significant results.
- 7 We now say the following, "In all cases
- 8 studied, the additional pressure drop exhibited by
- 9 the Patriots' footballs is unlikely to have occurred
- 10 by chance."
- 11 Q. What did you conclude about Exponent's
- 12 difference in differences work?
- 13 A. Well, it's wrong. It goes back to their
- 14 basic theory, the basic idea that the Colts' balls a
- 15 control. If you want -- and I understand the idea
- 16 of using the Colts' balls as a control, but they
- 17 have to be a good control.
- 18 If they are a good control, then you can
- 19 isolate on whether the question of whether the
- 20 additional pressure drop exhibited by the Patriots'
- 21 footballs is or is not likely to have occurred by
- 22 chance.
- **Q.** And what was your conclusion as to whether
- 24 the Colts' balls served as good controls in their
- **25** analysis?

- A. They didn't, because I mentioned this
- 2 earlier. There was a sequence of events at
- 3 halftime. And the sequence of events at halftime
- 4 was that the Patriots' balls were measured first.
- 5 The Colts' balls were measured second, or even
- 6 later, depending on the sequence of halftime events.
- 7 COMMISSIONER GOODELL: What would be the
- 8 significant time period where it becomes important
- 9 it exceeded that amount?
- 10 THE WITNESS: I am going to cover that,
- 11 Mr. Commissioner. But basically even if you take
- 12 the minimum sort of bump, three and a half minutes,
- 13 this p-value goes above the key threshold.
- 14 COMMISSIONER GOODELL: Three-and-a-half
- 15 minutes from the first ball to the last ball, from
- **16** Patriots to Colts?
- 17 THE WITNESS: Yeah. If you just say we are
- 18 going to make the Colts' balls, which are a little
- 19 bit warmer and a little bit dryer, and say, well,
- 20 what if they were, in effect, adjusted for that, and
- 21 they were measured when the Patriots' balls were
- 22 measured, this result goes away.
- 23 COMMISSIONER GOODELL: And who says they are
- 24 dryer? "Three-and-a-half minutes they get dryer."
- 25 THE WITNESS: Well, you can leave out dry.
  - DIRECT/SNYDER/GREENSPANPage 169
- 1 Just do warm. In fact, that's the case I am going
- 2 to turn to next.
- **Q.** Let's focus on that and go to the next slide.
- 4 And what does Exponent tell us about the importance
- **5** of time?
- 6 A. Well, the Exponent report is full of
- 7 scientific guidance that says timing is important.
- 8 And they refer to basic thermodynamics. They say
- 9 it's completely expected, this top bullet point,
- 10 that a football is brought from a warmer environment
- 11 into a colder environment and then when it's brought
- 12 back into a warmer environment, that the psi will
- 13 change.
- 14 It will go, it will start high, go down and
- 15 then come up. And these variations in temperature
- 16 and pressure are time-dependent in the time ranges
- 17 at issue in the present investigation.
- 18 And then the second bullet point, especially
- 19 the bolded point, "A key factor in explaining the
- 20 difference in measurements between the Patriots' and
- 21 Colts' balls is timing." These are Exponent quotes.
- **Q.** And let's jump to Exponent's table. This is
- 23 their Figure 22. And if you could sort of walk us
- 24 through this figure and what it shows us about the
- **25** importance of time.

	Case 1:15-cv-05916-RMB-JCF Document	<mark>28-2</mark>	30 Filed 08/04/15 Page 47 of 172
1	A. Okay. So along the horizontal axis here is	1	this curve (indicating).
2	time, minute by minute. And it starts at 2:38. So	2	Q. Let's take a look at, it's our Slide 10, this
3	there is a lot happening with the game before of	3	is another quote from Exponent. And if you could
4	this focus.	4	talk about the significance of the bolded language,
5	Q. 2:38 prior to halftime?	5	again, in terms of your analysis of the importance
6	A. Right. That's when the balls are being	6	of timing at halftime.
7	brought off the field and then the locker room	7	A. Well, there's a strong dependence on time.
8	period begins at minute 2:40 and it lasts	8	(Reading): "Specifically, the pressure in a
9	COMMISSIONER GOODELL: I'm sorry; what was	9	football measured immediately" here I'm
10	that 2:38 starts when, at the beginning of the game?	10	quoting "Specifically, the pressure in a football
11	THE WITNESS: No, that is my understanding of	11	measured immediately after coming into the locker
12	when the balls are being brought off the field into	12	room will be significantly lower as compared to the
13	the locker room.	13	pressure measured in the same football once it has
14	COMMISSIONER GOODELL: What happens from zero	14	sat and warmed up in the locker room for several
15	to 2:37, I guess is a better	15	minutes." That's from Exponent.
16	THE WITNESS: First half is playing.	16	Q. So let's go to our Slide 12. And what is
17	COMMISSIONER GOODELL: Zero is the start of	17	this showing?
18	game?	18	A. This takes the earlier Figure 22, and I will
19	THE WITNESS: Yes, or some pre-game activity,	19	refer to that again. It takes the top schedule,
20	yes. That's a good question. It may be when the	20	what Exponent calls their transient analysis, that's
21	balls are brought onto the field; I'm not sure.	21	their scientific framework.
22	COMMISSIONER GOODELL: That's important,	22	It says, okay, you bring in a Colts' ball.
23	wouldn't you say?	23	It was pre-game at 13. It's brought right into the
24	THE WITNESS: Well, there's plenty of time	24	locker room. It's going to be 11.87. This is,
25	according to Exponent. I'm not here to question	25	like, so 2:40 is, like, in locker room terms, it's
25			
25			
	DIRECT/SNYDER/GREENSPAN Page 171		DIRECT/SNYDER/GREENSPANPage 173
1 2	DIRECT/SNYDER/GREENSPAN Page 171 that, but there's plenty of time for the balls	1 2	DIRECT/SNYDER/GREENSPANPage 173 minute zero. And then 12 minutes later, it's warmed
1	DIRECT/SNYDER/GREENSPAN Page 171 that, but there's plenty of time for the balls you take the assumption that the Colts' balls were	1 2	DIRECT/SNYDER/GREENSPANPage 173 minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.
1 2	DIRECT/SNYDER/GREENSPAN Page 171 that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.	1	DIRECT/SNYDER/GREENSPANPage 173 minute zero. And then 12 minutes later, it's warmed
1 2 3	DIRECT/SNYDER/GREENSPAN Page 171 that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0. There's plenty of time, whether it's 2:38 or	1 2 3	DIRECT/SNYDER/GREENSPANPage 173 minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes. Q. The same ball? A. The same ball.
1 2 3 4	DIRECT/SNYDER/GREENSPAN Page 171 that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0. There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to	1 2 3 4	DIRECT/SNYDER/GREENSPANPage 173 minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes. Q. The same ball? A. The same ball.
1 2 3 4 5	DIRECT/SNYDER/GREENSPAN Page 171 that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that	1 2 3 4 5	DIRECT/SNYDER/GREENSPANPage 173  minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.  Q. The same ball?  A. The same ball.  Q. What did Exponent do in its difference in difference analysis to account for time?
1 2 3 4 5 6	DIRECT/SNYDER/GREENSPAN Page 171 that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming	1 2 3 4 5 6	DIRECT/SNYDER/GREENSPANPage 173  minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.  Q. The same ball?  A. The same ball.  Q. What did Exponent do in its difference in difference analysis to account for time?
1 2 3 4 5 6 7	DIRECT/SNYDER/GREENSPAN Page 171 that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots'	1 2 3 4 5 6 7	DIRECT/SNYDER/GREENSPANPage 173 minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes. Q. The same ball? A. The same ball. Q. What did Exponent do in its difference in difference analysis to account for time? A. Nothing. Q. How do you know?
1 2 3 4 5 6 7 8	DIRECT/SNYDER/GREENSPAN Page 171 that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots' balls, to equilibrate.	1 2 3 4 5 6 7 8	DIRECT/SNYDER/GREENSPANPage 173  minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.  Q. The same ball?  A. The same ball.  Q. What did Exponent do in its difference in difference analysis to account for time?  A. Nothing.  Q. How do you know?  A. Absolutely nothing. If you look at their
1 2 3 4 5 6 7 8	DIRECT/SNYDER/GREENSPAN Page 171 that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots' balls, to equilibrate.	1 2 3 4 5 6 7 8	DIRECT/SNYDER/GREENSPANPage 173 minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes. Q. The same ball? A. The same ball. Q. What did Exponent do in its difference in difference analysis to account for time? A. Nothing. Q. How do you know? A. Absolutely nothing. If you look at their difference in difference equation in their appendix
1 2 3 4 5 6 7 8 9	DIRECT/SNYDER/GREENSPAN Page 171 that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots' balls, to equilibrate.  Q. Dean Snyder, what's happening with the psi of	1 2 3 4 5 6 7 8 9	DIRECT/SNYDER/GREENSPANPage 173 minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes. Q. The same ball? A. The same ball. Q. What did Exponent do in its difference in difference analysis to account for time? A. Nothing. Q. How do you know? A. Absolutely nothing. If you look at their difference in difference equation in their appendix and you look at Table A3, where they report their
1 2 3 4 5 6 7 8 9 10	DIRECT/SNYDER/GREENSPAN Page 171 that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots' balls, to equilibrate.  Q. Dean Snyder, what's happening with the psi of the balls right before they are brought into the locker room, so between minute 2:38 and minute 2:40?	1 2 3 4 5 6 7 8 9 10	DIRECT/SNYDER/GREENSPANPage 173 minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.  Q. The same ball?  A. The same ball.  Q. What did Exponent do in its difference in difference analysis to account for time?  A. Nothing.  Q. How do you know?  A. Absolutely nothing. If you look at their difference in difference equation in their appendix and you look at Table A3, where they report their results, they have explanatory variables for their
1 2 3 4 5 6 7 8 9 10 11	DIRECT/SNYDER/GREENSPAN Page 171 that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots' balls, to equilibrate.  Q. Dean Snyder, what's happening with the psi of the balls right before they are brought into the locker room, so between minute 2:38 and minute 2:40?  A. Nothing, really.	1 2 3 4 5 6 7 8 9 10 11 12	minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.  Q. The same ball?  A. The same ball.  Q. What did Exponent do in its difference in difference analysis to account for time?  A. Nothing.  Q. How do you know?  A. Absolutely nothing. If you look at their difference in difference equation in their appendix and you look at Table A3, where they report their results, they have explanatory variables for their difference in difference analysis and time is not an
1 2 3 4 5 6 7 8 9 10 11 12 13	that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots' balls, to equilibrate.  Q. Dean Snyder, what's happening with the psi of the balls right before they are brought into the locker room, so between minute 2:38 and minute 2:40?  A. Nothing, really.  Q. Okay. And then what do we see happens to the	1 2 3 4 5 6 7 8 9 10 11 12 13	minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.  Q. The same ball?  A. The same ball. Q. What did Exponent do in its difference in difference analysis to account for time?  A. Nothing. Q. How do you know?  A. Absolutely nothing. If you look at their difference in difference equation in their appendix and you look at Table A3, where they report their results, they have explanatory variables for their difference in difference analysis and time is not an explanatory variable.
1 2 3 4 5 6 7 8 9 10 11 12 13 14	DIRECT/SNYDER/GREENSPAN Page 171 that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots' balls, to equilibrate.  Q. Dean Snyder, what's happening with the psi of the balls right before they are brought into the locker room, so between minute 2:38 and minute 2:40?  A. Nothing, really.	1 2 3 4 5 6 7 8 9 10 11 12 13 14	minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.  Q. The same ball?  A. The same ball.  Q. What did Exponent do in its difference in difference analysis to account for time?  A. Nothing.  Q. How do you know?  A. Absolutely nothing. If you look at their difference in difference equation in their appendix and you look at Table A3, where they report their results, they have explanatory variables for their difference in difference analysis and time is not an explanatory variable.  You can read the Exponent report forwards,
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots' balls, to equilibrate.  Q. Dean Snyder, what's happening with the psi of the balls right before they are brought into the locker room, so between minute 2:38 and minute 2:40?  A. Nothing, really. Q. Okay. And then what do we see happens to the pressure of the balls once they are brought into the locker room at minute 2:40?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.  Q. The same ball?  A. The same ball.  Q. What did Exponent do in its difference in difference analysis to account for time?  A. Nothing.  Q. How do you know?  A. Absolutely nothing. If you look at their difference in difference equation in their appendix and you look at Table A3, where they report their results, they have explanatory variables for their difference in difference analysis and time is not an explanatory variable.  You can read the Exponent report forwards, backwards, upside down. You see time referred to
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots' balls, to equilibrate.  Q. Dean Snyder, what's happening with the psi of the balls right before they are brought into the locker room, so between minute 2:38 and minute 2:40?  A. Nothing, really.  Q. Okay. And then what do we see happens to the pressure of the balls once they are brought into the locker room at minute 2:40?  A. Well, they warm up. So going back to the	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.  Q. The same ball?  A. The same ball.  Q. What did Exponent do in its difference in difference analysis to account for time?  A. Nothing.  Q. How do you know?  A. Absolutely nothing. If you look at their difference in difference equation in their appendix and you look at Table A3, where they report their results, they have explanatory variables for their difference in difference analysis and time is not an explanatory variable.  You can read the Exponent report forwards, backwards, upside down. You see time referred to again and again and again and again. However, you
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots' balls, to equilibrate.  Q. Dean Snyder, what's happening with the psi of the balls right before they are brought into the locker room, so between minute 2:38 and minute 2:40?  A. Nothing, really. Q. Okay. And then what do we see happens to the pressure of the balls once they are brought into the locker room at minute 2:40?  A. Well, they warm up. So going back to the Commissioner's question, let's put aside the issue	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.  Q. The same ball?  A. The same ball.  Q. What did Exponent do in its difference in difference analysis to account for time?  A. Nothing.  Q. How do you know?  A. Absolutely nothing. If you look at their difference in difference equation in their appendix and you look at Table A3, where they report their results, they have explanatory variables for their difference in difference analysis and time is not an explanatory variable.  You can read the Exponent report forwards, backwards, upside down. You see time referred to again and again and again and again. However, you have to look at what they actually did, the
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots' balls, to equilibrate.  Q. Dean Snyder, what's happening with the psi of the balls right before they are brought into the locker room, so between minute 2:38 and minute 2:40?  A. Nothing, really. Q. Okay. And then what do we see happens to the pressure of the balls once they are brought into the locker room at minute 2:40?  A. Well, they warm up. So going back to the Commissioner's question, let's put aside the issue of moisture and just focus on the dry schedules.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.  Q. The same ball?  A. The same ball.  Q. What did Exponent do in its difference in difference analysis to account for time?  A. Nothing.  Q. How do you know?  A. Absolutely nothing. If you look at their difference in difference equation in their appendix and you look at Table A3, where they report their results, they have explanatory variables for their difference in difference analysis and time is not an explanatory variable.  You can read the Exponent report forwards, backwards, upside down. You see time referred to again and again and again and again. However, you have to look at what they actually did, the statistical analysis that they actually did. They
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots' balls, to equilibrate.  Q. Dean Snyder, what's happening with the psi of the balls right before they are brought into the locker room, so between minute 2:38 and minute 2:40?  A. Nothing, really.  Q. Okay. And then what do we see happens to the pressure of the balls once they are brought into the locker room at minute 2:40?  A. Well, they warm up. So going back to the Commissioner's question, let's put aside the issue of moisture and just focus on the dry schedules. The top one is 13.0 psi dry. That would correspond	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.  Q. The same ball?  A. The same ball.  Q. What did Exponent do in its difference in difference analysis to account for time?  A. Nothing.  Q. How do you know?  A. Absolutely nothing. If you look at their difference in difference equation in their appendix and you look at Table A3, where they report their results, they have explanatory variables for their difference in difference analysis and time is not an explanatory variable.  You can read the Exponent report forwards, backwards, upside down. You see time referred to again and again and again and again. However, you have to look at what they actually did, the statistical analysis that they said was the
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots' balls, to equilibrate.  Q. Dean Snyder, what's happening with the psi of the balls right before they are brought into the locker room, so between minute 2:38 and minute 2:40?  A. Nothing, really. Q. Okay. And then what do we see happens to the pressure of the balls once they are brought into the locker room at minute 2:40?  A. Well, they warm up. So going back to the Commissioner's question, let's put aside the issue of moisture and just focus on the dry schedules.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.  Q. The same ball?  A. The same ball.  Q. What did Exponent do in its difference in difference analysis to account for time?  A. Nothing.  Q. How do you know?  A. Absolutely nothing. If you look at their difference in difference equation in their appendix and you look at Table A3, where they report their results, they have explanatory variables for their difference in difference analysis and time is not an explanatory variable.  You can read the Exponent report forwards, backwards, upside down. You see time referred to again and again and again and again. However, you have to look at what they actually did, the statistical analysis that they actually did. They left time out of the analysis that they said was the most important.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots' balls, to equilibrate.  Q. Dean Snyder, what's happening with the psi of the balls right before they are brought into the locker room, so between minute 2:38 and minute 2:40?  A. Nothing, really. Q. Okay. And then what do we see happens to the pressure of the balls once they are brought into the locker room at minute 2:40?  A. Well, they warm up. So going back to the Commissioner's question, let's put aside the issue of moisture and just focus on the dry schedules. The top one is 13.0 psi dry. That would correspond to a Colts' ball that's dry.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.  Q. The same ball?  A. The same ball.  Q. What did Exponent do in its difference in difference analysis to account for time?  A. Nothing.  Q. How do you know?  A. Absolutely nothing. If you look at their difference in difference equation in their appendix and you look at Table A3, where they report their results, they have explanatory variables for their difference in difference analysis and time is not an explanatory variable.  You can read the Exponent report forwards, backwards, upside down. You see time referred to again and again and again and again. However, you have to look at what they actually did, the statistical analysis that they actually did. They left time out of the analysis that they said was the most important.  Q. Were you and your team able to account for
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that, but there's plenty of time for the balls you take the assumption that the Colts' balls were at 13.0.  There's plenty of time, whether it's 2:38 or 2:10 or 2:00 or 2:50 for the Colts' balls to equilibrate to basically this level, assuming that they are dry (indicating) or this level assuming they are wet, and the same thing for the Patriots' balls, to equilibrate.  Q. Dean Snyder, what's happening with the psi of the balls right before they are brought into the locker room, so between minute 2:38 and minute 2:40?  A. Nothing, really. Q. Okay. And then what do we see happens to the pressure of the balls once they are brought into the locker room at minute 2:40?  A. Well, they warm up. So going back to the Commissioner's question, let's put aside the issue of moisture and just focus on the dry schedules. The top one is 13.0 psi dry. That would correspond to a Colts' ball that's dry.  And it comes into the locker room right here	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	minute zero. And then 12 minutes later, it's warmed up and it's roughly 1.1 psi greater in 12 minutes.  Q. The same ball?  A. The same ball.  Q. What did Exponent do in its difference in difference analysis to account for time?  A. Nothing.  Q. How do you know?  A. Absolutely nothing. If you look at their difference in difference equation in their appendix and you look at Table A3, where they report their results, they have explanatory variables for their difference in difference analysis and time is not an explanatory variable.  You can read the Exponent report forwards, backwards, upside down. You see time referred to again and again and again and again. However, you have to look at what they actually did, the statistical analysis that they actually did. They left time out of the analysis that they said was the most important.

Patriots' ball that's dry comes in lower and follows

25

A. I took their scientific guidance and said,

- 1 let's adjust for time.
- **Q.** Let's go to the next slide and let's just
- **3** focus here. We are going to go through these three
- 4 cases. Let's focus on case 1 and what you and your
- 5 team tried to do.
- 6 A. Case 1 is what I would call the minimum bump,
- 7 the minimum adjustment for time, assuming that the
- 8 Colts' balls were measured immediately after the
- 9 Patriots' balls, no moisture effect.
- **10 Q.** Let's go to the next slide. What's happening
- 11 here? This is your slide. What are you showing in
- **12** your case 1?
- 13 A. Well, it's my slide, but it's Exponent's
- 14 transition graph. This is -- the top part of that
- 15 is right off of Exponent figure 22. And if it's
- 16 okay, let me just explain what's happening here.
- 17 This is the average psi of the Colts' balls
- 18 (indicating), okay.
- 19 And under this assumption about when they
- 20 were measured, this occurs right at this point in
- 21 time. So this is a given. And none of these
- 22 analyses are going to change the observed average
- 23 measurements for the Colts' balls. Those are the
- 24 starting values. If we drop a line down here, this
- 25 is when the Patriots' balls were measured.

DIRECT/SNYDER/GREENSPAN Page 175

- 1 So I'm going through basically an adjustment
- 2 that says if the Patriots' balls are measured here,
- 3 what if we said and adjusted for time and, in
- 4 effect, moved that measurement in this direction
- 5 just three-and-a-half minutes?
- 6 And we use Exponent's transition analysis to
- 7 tell us how much of an adjustment that would have
- 8 minute by minute on the height of this. And the
- 9 difference in the height of this and this looks to
- 10 be about this amount right here (indicating).
- 11 That's the adjustment in time. That's the
- 12 difference in psi.
- **Q.** Let's go to your next slide to see the impact
- **14** on statistical significance.
- 15 A. Well, again, just for reference, this is
- 16 Exponent's analysis, except that there is a
- 17 difference in difference that couldn't be explained
- 18 of about .7. I am going to do rounding here.
- 19 And it's statistically significant. If we do
- 20 this minimum bump, that difference in psi that's,
- 21 quote, "unexplained" goes from .7 to .4 psi. And
- 22 critically, the statistical significance is now
- 23 eliminated. We now go from under .05 to above .05.
- **Q.** What is the importance of that finding?
- 25 A. This is, well, Exponent adopted statistical

- 1 significance for a reason. We have a very small
- 2 sample. We have measurement error.
- We have other factors. You adopt a standard
- 4 of statistical significance for a reason. And the
- 5 importance now is this is not a result on which you
- 6 go from statistical significance to conclusions.
- 7 You don't -- you stop there.
- **Q.** You did it. You did a second case. What
- **9** adjustment, what were you trying to account for in
- 10 Case Number 2?
- 11 A. Well, Case Number 2, here's the sequence of
- 12 events that was basically -- we will call it
- 13 halftime sequence number 1. And the Patriots' balls
- 14 are measured first. The Colts' balls are measured
- 15 second. And then the Patriots' balls were
- 16 reinflated. This is in the Wells report.
- 17 What's acknowledged here, though, is there
- 18 remains uncertainty about the order of the last two
- 19 events, not uncertainty about the Patriots being
- 20 first, but uncertainty about these two. So what if
- 21 you just evaluate that uncertainty and flip these?
- 22 So it's Patriots' measurement, Patriots'
- 23 reinflation, and then Colts' measurement.
- **Q.** Let's go to the next slide.
  - A. Basically it's the same analysis. Instead of

DIRECT/SNYDER/GREENSPANPage 177

- 1 a three-and-a-half-minute adjustment for time, it's
- 2 now a seven-and-a-half-minute adjustment for time.
- **Q.** And let's go to the next slide and see what
- 4 happens.

- **5** COMMISSIONER GOODELL: Just so I'm clear, you
- **6** are saying it would take four minutes for eleven
- 7 balls to be properly inflated? That's your analysis
- 8 or whose analysis is that?
- **9** THE WITNESS: That's in the Exponent report
- 10 and the Wells report. They have a range, time
- 11 ranges for those sequences of events.
- **Q.** And what happens to the p-value and more
- 13 generally, if you could speak to the significance of
- **14** the p-value in statistical terms once you make an
- . The product in Statistical terms office you in
- **15** adjustment?
- 16 A. Well, again, I think it's good to just always
- 17 refer back to what was the so-called unexplained
- 18 difference in drops. According to Exponent, it was
- 19 about .7 psi.
- 20 Now, if you consider this alternative
- 21 sequence with a time difference of seven and a half
- 22 minutes, on average, the difference in psi now goes
- 23 to under .3 and the p-value goes to .2. This is a
- 24 kind of range of a p-value where you say, I don't
- 25 know whether there was anything at all.

	Case 1:15-cv-05916-RMB-JCF Document 2	<del>28-2</del>	30 Filed 08/04/15 Page 49 of 172 DIRECT/SNYDER/CREENSPANPAGE 180
1	COMMISSIONER GOODELL: What do you mean by	1	COMMISSIONER GOODELL: Could I just hear what
2	that?	2	his plausible assumptions are. What are your
3	THE WITNESS: I mean by that when you set up	3	plausible assumptions?
4	a test like that, you are trying to accept or reject	4	THE WITNESS: Plausible assumptions is that,
5	hypotheses. And when you see something like this,	5	in addition to considering the minimum time
6	you say, I don't know what's going on. I don't know	6	adjustment, if you consider the alternative time
7	if there's any significant difference in difference	7	sequence, and I'm not here to say it's one or the
8	from which to draw conclusions.	8	other, but you had two time sequences at halftime
9	Q. Let's talk about your third case and what you	9	that I believe should be considered. One is
10	tried to test for here.	10	Patriots, Colts measurement
11	A. Well, the third case, again, goes back to the	11	COMMISSIONER GOODELL: Your 1, 2, 3, right?
12	idea of a control. And the concern that motivates	12	THE WITNESS: Yes.
13	this is that Exponent was testing balls at two	13	COMMISSIONER GOODELL: That's your plausible
14	different points in time.	14	assumptions?
15	And the Patriots' balls not only would be	15	THE WITNESS: Yeah, just saying that there
16	colder, they could be wetter compared to the Colts'	16	was a greater
17	balls, which would be warmer and dryer. That's not	17	COMMISSIONER GOODELL: What about dry time?
18	apples to apples. So you want to make an adjustment	18	THE WITNESS: Yes, and what if there is a
19	for time that affects both warmth and moisture to	19	moisture effect.
20	see, not to say you know exactly how wet they were,	20	COMMISSIONER GOODELL: But that's a what-if,
21	because I don't know. But what if there is a	21	right?
22	moisture effect as well as a warmth effect?	22	THE WITNESS: Yes, it is a what-if, yes, sir.
23	Q. Let me ask you a question. You said, "What	23	Q. What did Exponent do in its, what you call
24	if there's a moisture effect?" Was this an issue	24	statistical variability analysis? And if you have
25	that you discussed with Mr. Duffner?	25	an understanding as to why they did this analysis?
	DIRECT/SNYDER/GREENSPAN Page 179		DIRECT/SNYDER/GREENSPANPage 181
1	DIRECT/SNYDER/GREENSPAN Page 179  A. Yes.	1	DIRECT/SNYDER/GREENSPANPage 181  A. Well, this is a relatively brief commentary.
1 2	_	1 2	C
	A. Yes.		A. Well, this is a relatively brief commentary.
2	<ul><li>A. Yes.</li><li>Q. What did he say?</li></ul>	2	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is
2	<ul><li>A. Yes.</li><li>Q. What did he say?</li><li>A. He said it's definitely the kind of thing</li></ul>	3	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the
2 3 4	<ul><li>A. Yes.</li><li>Q. What did he say?</li><li>A. He said it's definitely the kind of thing</li><li>that should be explored. Balls come in wet. They</li></ul>	2 3 4	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts'
2 3 4 5	<ul> <li>A. Yes.</li> <li>Q. What did he say?</li> <li>A. He said it's definitely the kind of thing</li> <li>that should be explored. Balls come in wet. They</li> <li>get dry over this time period. So this keeps the</li> </ul>	2 3 4 5	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at
2 3 4 5 6	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes	2 3 4 5 6	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if
2 3 4 5 6 7	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there	2 3 4 5 6 7	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had
2 3 4 5 6 7 8	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect.	2 3 4 5 6 7 8	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their
2 3 4 5 6 7 8 9	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect. Q. And what happens to the p-value when you do	2 3 4 5 6 7 8 9	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their measurements, that would lend support to the idea
2 3 4 5 6 7 8 9	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect. Q. And what happens to the p-value when you do this analysis?	2 3 4 5 6 7 8 9	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their measurements, that would lend support to the idea that they didn't have a common starting value. Why
2 3 4 5 6 7 8 9 10	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect. Q. And what happens to the p-value when you do this analysis? A. Well, the p-value goes even higher. And with	2 3 4 5 6 7 8 9 10	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their measurements, that would lend support to the idea that they didn't have a common starting value? Hasty wouldn't they have a common starting value? Hasty
2 3 4 5 6 7 8 9 10 11	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect. Q. And what happens to the p-value when you do this analysis? A. Well, the p-value goes even higher. And with respect to this unexplained difference in	2 3 4 5 6 7 8 9 10 11	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their measurements, that would lend support to the idea that they didn't have a common starting value. Why wouldn't they have a common starting value? Hasty deflation.
2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect. Q. And what happens to the p-value when you do this analysis? A. Well, the p-value goes even higher. And with respect to this unexplained difference in difference, .7 now goes to .07. 90 percent of the	2 3 4 5 6 7 8 9 10 11 12 13	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their measurements, that would lend support to the idea that they didn't have a common starting value. Why wouldn't they have a common starting value? Hasty deflation.  Q. Let's go to the next slide. And what did
2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect. Q. And what happens to the p-value when you do this analysis? A. Well, the p-value goes even higher. And with respect to this unexplained difference in difference in difference is now explained.	2 3 4 5 6 7 8 9 10 11 12 13	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their measurements, that would lend support to the idea that they didn't have a common starting value. Why wouldn't they have a common starting value? Hasty deflation.  Q. Let's go to the next slide. And what did Exponent conclude as a statistical matter about
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect. Q. And what happens to the p-value when you do this analysis? A. Well, the p-value goes even higher. And with respect to this unexplained difference in difference in difference is now explained. Q. What's your takeaway from your first finding,	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their measurements, that would lend support to the idea that they didn't have a common starting value. Why wouldn't they have a common starting value? Hasty deflation.  Q. Let's go to the next slide. And what did Exponent conclude as a statistical matter about variability?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect. Q. And what happens to the p-value when you do this analysis? A. Well, the p-value goes even higher. And with respect to this unexplained difference in difference in difference is now explained. Q. What's your takeaway from your first finding, your analysis of their difference in differences	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their measurements, that would lend support to the idea that they didn't have a common starting value. Why wouldn't they have a common starting value? Hasty deflation.  Q. Let's go to the next slide. And what did Exponent conclude as a statistical matter about variability?  A. No statistical no statistically significant difference.  Q. Did they stop there?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect. Q. And what happens to the p-value when you do this analysis? A. Well, the p-value goes even higher. And with respect to this unexplained difference in difference, .7 now goes to .07. 90 percent of the difference in difference is now explained. Q. What's your takeaway from your first finding, your analysis of their difference in differences work?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their measurements, that would lend support to the idea that they didn't have a common starting value. Why wouldn't they have a common starting value? Hasty deflation.  Q. Let's go to the next slide. And what did Exponent conclude as a statistical matter about variability?  A. No statistical no statistically significant difference.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect. Q. And what happens to the p-value when you do this analysis? A. Well, the p-value goes even higher. And with respect to this unexplained difference in difference in difference is now explained. Q. What's your takeaway from your first finding, your analysis of their difference in differences work? A. Timing needs to be included in the analysis.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their measurements, that would lend support to the idea that they didn't have a common starting value. Why wouldn't they have a common starting value? Hasty deflation.  Q. Let's go to the next slide. And what did Exponent conclude as a statistical matter about variability?  A. No statistical no statistically significant difference.  Q. Did they stop there?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect. Q. And what happens to the p-value when you do this analysis? A. Well, the p-value goes even higher. And with respect to this unexplained difference in difference, .7 now goes to .07. 90 percent of the difference in difference is now explained. Q. What's your takeaway from your first finding, your analysis of their difference in differences work? A. Timing needs to be included in the analysis. When you include timing, the results shift from	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their measurements, that would lend support to the idea that they didn't have a common starting value. Why wouldn't they have a common starting value? Hasty deflation.  Q. Let's go to the next slide. And what did Exponent conclude as a statistical matter about variability?  A. No statistical no statistically significant difference.  Q. Did they stop there?  A. No. They continued, which is striking,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect. Q. And what happens to the p-value when you do this analysis? A. Well, the p-value goes even higher. And with respect to this unexplained difference in difference, .7 now goes to .07. 90 percent of the difference in difference is now explained. Q. What's your takeaway from your first finding, your analysis of their difference in differences work? A. Timing needs to be included in the analysis. When you include timing, the results shift from being statistically significant to insignificant.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their measurements, that would lend support to the idea that they didn't have a common starting value. Why wouldn't they have a common starting value? Hasty deflation.  Q. Let's go to the next slide. And what did Exponent conclude as a statistical matter about variability?  A. No statistical no statistically significant difference.  Q. Did they stop there?  A. No. They continued, which is striking, because, whereas in the difference in difference
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect. Q. And what happens to the p-value when you do this analysis? A. Well, the p-value goes even higher. And with respect to this unexplained difference in difference in difference is now explained. Q. What's your takeaway from your first finding, your analysis of their difference in differences work? A. Timing needs to be included in the analysis. When you include timing, the results shift from being statistically significant to insignificant. The unexplained difference in difference falls and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their measurements, that would lend support to the idea that they didn't have a common starting value. Why wouldn't they have a common starting value? Hasty deflation.  Q. Let's go to the next slide. And what did Exponent conclude as a statistical matter about variability?  A. No statistical no statistically significant difference.  Q. Did they stop there?  A. No. They continued, which is striking, because, whereas in the difference in difference analysis, they adopted the standard five percent as
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect. Q. And what happens to the p-value when you do this analysis? A. Well, the p-value goes even higher. And with respect to this unexplained difference in difference in difference is now explained. Q. What's your takeaway from your first finding, your analysis of their difference in differences work? A. Timing needs to be included in the analysis. When you include timing, the results shift from being statistically significant to insignificant. The unexplained difference in difference falls and under plausible assumptions goes to a de minimus	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their measurements, that would lend support to the idea that they didn't have a common starting value. Why wouldn't they have a common starting value? Hasty deflation.  Q. Let's go to the next slide. And what did Exponent conclude as a statistical matter about variability?  A. No statistical no statistically significant difference. Q. Did they stop there? A. No. They continued, which is striking, because, whereas in the difference in difference analysis, they adopted the standard five percent as the benchmark, here, they said, no, we will just
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	A. Yes. Q. What did he say? A. He said it's definitely the kind of thing that should be explored. Balls come in wet. They get dry over this time period. So this keeps the seven and a half minutes the same, but also takes the Colts' balls back, it says, well, what if there is a moisture effect. Q. And what happens to the p-value when you do this analysis? A. Well, the p-value goes even higher. And with respect to this unexplained difference in difference, .7 now goes to .07. 90 percent of the difference in difference is now explained. Q. What's your takeaway from your first finding, your analysis of their difference in differences work? A. Timing needs to be included in the analysis. When you include timing, the results shift from being statistically significant to insignificant. The unexplained difference in difference falls and under plausible assumptions goes to a de minimus level.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	A. Well, this is a relatively brief commentary.  My belief is, and this is a bit of a speculation, is that they wanted to look at the variants, the dispersion in the measurements between the Colts' balls at halftime and the Patriots' balls at halftime to see if there was a contrast. And if there was a contrast so that the Patriots' balls had more dispersion, more variance in their measurements, that would lend support to the idea that they didn't have a common starting value. Why wouldn't they have a common starting value? Hasty deflation.  Q. Let's go to the next slide. And what did Exponent conclude as a statistical matter about variability?  A. No statistical no statistically significant difference.  Q. Did they stop there?  A. No. They continued, which is striking, because, whereas in the difference in difference analysis, they adopted the standard five percent as the benchmark, here, they said, no, we will just continue on and reach conclusions. And it's right here at the bottom.  So without having found anything that's

- 1 statistically significant, nevertheless they have a
- 2 statement that begins in their report, "therefore."
- **Q.** And in your experience, as a statistical
- 4 matter, is it a sound practice to draw conclusions
- 5 from an analysis which doesn't reach statistical
- 6 significance?
- 7 A. No.

- Q. Even putting aside the fact that Exponent's
- **9** results were not statistically significant, are you
- 10 aware of any explanation for greater variability
- 11 among Patriots' balls compared to Colts' balls?
- 12 A. I'm not here to offer scientific insights. I
- 13 don't know if the first-half conditions could lead
- 14 to more variance. I'm just going to focus on the
- 15 scientific guidance provided by Exponent. And
- 16 recognizing that the Colts' balls were measured some
- 17 time in here (indicating).
- 18 They are measured at a relatively flat part
- 19 of the curve (indicating). And if you sample from a
- 20 relatively flat part of the curve, you get less
- 21 variance. And this was not considered by Exponent
- 22 when they made this comparison and reached the
- 23 "therefore" conclusion.
- **Q.** Was this issue of the impact of time on
- 25 variance something you discussed with Mr. Duffner?

DIRECT/SNYDER/GREENSPAN Page 183

- 1 A. Yes. I asked him if the insight that we had
- 2 developed on this was correct, and he said -- he
- 3 said, definitely. I mean, we were basically
- 4 finishing each other's sentences. He said -- I said
- ${\bf 5} \quad \hbox{the curve flattens and that's going to lead to less}$
- 6 variance.
- 7 And he used a different term. He said "curve 8 asymptotes," a more technical term, but he said the
- 9 same thing.
- **10 Q.** Let's go to your finding number 3. What's
- 11 the bottom-line conclusion here?
- 12 A. Exponent did an analysis to establish what
- 13 you might say is a scientific benchmark, a threshold
- 14 to say should the Patriots' balls or are the
- 15 Patriots' balls above this threshold?
- 16 And my finding is that if you consider as a
- 17 plausible assumption that the logo gauge was used
- 18 pre-game by Mr. Walt Anderson, I'm not saying it's
- 19 true, I'm just saying if you entertain that
- 20 assumption, given the uncertainty, and you execute
- 21 Exponent's analysis correctly, then eight out of the
- 22 eleven Patriots' balls are above this relevant
- 23 scientific threshold.
- **Q.** Let's go to the next slide and the beginning
- 25 of Exponent's analysis. Their comparison of the

- 1 Patriots' balls halftime measurements to the Ideal
- 2 Gas Law Formula. If you could describe, what did
- 3 Exponent do?
- 4 A. Well, they applied the Ideal Gas Formula.
- 5 They have parameters here of a starting temperature
- 6 between 67 and 71 when that initial psi of 12.5 was
- 7 established and then a final temperature of 48.
- 8 And then they are saying, well, what if they
- 9 are brought into the locker room right then, what
- 10 should they measure? And the key number here is
- 11 that they identified this as their scientific
- 12 threshold (indicating), and they say the balls have
- 13 not been deflated. The measurement should be above
- 14 11.32.
- 15 Q. Okay. Let's go to the next slide. And if
- **16** you could explain, how did Exponent do this? How
- **17** did they go about this comparison?
- 18 A. Well, it gets into some additional math. In
- 19 addition to the Ideal Gas Law math, they also
- 20 recognize that the two gauges have this tendency to
- 21 read differently. The logo gauge reads about .3 to
- 22 .4 higher than the non-logo gauge.
- 23 So what they did was carefully, according to
- 24 their report, establish how you convert readings
- 25 into a so-called master gauge well-calibrated,

DIRECT/SNYDER/GREENSPANPage 185

- 1 accurate master gauge for both the logo readings and
- 2 the non-logo readings.
- **Q.** And how do they do this conversion?
- 4 A. You mean in terms of the actual test?
- **Q.** Yes, how they execute.
- 6 A. Well, they basically say, well, if you say
- 7 it's the master -- excuse me, if it's the logo gauge
- 8 used, well then, you should convert the readings,
- 9 the halftime measurements and adjust them to the
- 10 master gauge readings.
- 11 Q. And that's a mathematical formula?
- 12 A. It's just a crunching of the -- through the
- 13 master gauge adjustment.
- **14 Q.** And when Exponent did these conversions, what
- 15 conclusion did they reach about how the Patriots'
- 16 balls compared to that range or the bottom end of
- 17 the range you talked about in the prior slide?
- 18 A. They found that eight of the Patriots' balls 19 were below this critical scientific threshold.
- **Q.** Did you find any errors in Exponent's
- 21 conversion work?
- 22 A. Yeah, yes. They made a very basic mistake.
- 23 They have the master gauge conversion adjustment,
- 24 and they converted the halftime readings for the
- 25 master gauge conversion, but they did not convert

- 1 the starting values for the master gauge conversion.
  - Q. Does that make a difference here? Does that
- **3** make a difference in the outcome?

- 4 A. It does under one of two assumptions. And
- 5 there are only two assumptions to make. Pre-game,
- 6 it was either Mr. Anderson used the logo gauge, his
- 7 recollection, or he used the non-logo gauge.
- 8 It turns out that the master gauge conversion
- 9 is not a very big adjustment at all for the non-logo
- 10 gauge. So this error doesn't play out to have any
- 11 significant effect on the Exponent findings if the
- 12 non-logo gauge was used.
- 13 However, because that logo gauge measures a
- 14 lot higher, you have to make the adjustments
- 15 consistently, both to the starting values and the
- 16 halftime values.
- **Q.** So let's put a pin in the conversion error
- 18 and take a look at and describe what we know about
- 19 the possibility that the logo gauge was used for the
- 20 pre-game measurements.
- 21 A. Well, without reading this, I mean, as a
- 22 researcher, here, the key point for me is that both
- 23 assumptions should be evaluated in terms of whether
- 24 Mr. Anderson used the logo gauge or the non-logo
- 25 gauge.

### DIRECT/SNYDER/GREENSPAN Page 187

- **Q.** Was there evidence before Exponent that the
- 2 logo gauge being used for a pre-game measurement was
- 3 a plausible possibility here?
- 4 A. Yes.
- **Q.** Let's go to the next slide. And were you
- 6 able to correct for that inconsistency that you
- 7 described in Exponent's master gauge conversion?
- 8 A. Yes. Now, the effective starting value is
- 9 not 12.5, it's 12.17.
- **Q.** How do you get the 12.17?
- 11 A. You apply the master gauge conversion
- 12 consistently to both halftime measurements, as well
- 13 as the starting value.
- **Q.** Okay. And let's go to the next slide. And
- **15** what is the impact of making that correction on the
- 16 results?
- 17 A. Now eight of the Patriots' balls are above
- 18 the critical threshold predicted by Exponent, three
- 19 are below.
- **Q.** We've talked about uncertainty in the gauges,
- 21 uncertainty in the sequence of events at halftime,
- 22 among other things. In statistical work, what is
- 23 the statistician to do when faced with uncertainties
- 24 in the data?
- 25 A. Well, in this case, there are only two

- 1 options: There is the logo gauge and the non-logo
- 2 gauge. And my view is you should entertain both
- 3 options. You should explore what happens to your
- 4 findings, assuming that Mr. Anderson used one and
- 5 then the other.
- **Q.** Do you see throughout Exponent's report, do
- 7 you see that in all cases, they are testing for all
- 8 possibilities?
- 9 A. No. I see instead rather than saying
- 10 neutrally, let's look at assumptions and see if our
- 11 results are consistent, as they did here, they
- 12 basically argued against the likelihood that the
- 13 logo gauge was used.
- **14 Q.** By the way, the conclusion that you reached
- 15 that eight out of the eleven balls were actually
- 16 above the bottom end of the Ideal Gas Law formula
- 17 prediction, are you the only person who's come to
- 18 that conclusion?

25

- 19 A. No. There are multiple people who have come
- 20 to that conclusion. The AEI report came to that
- 21 conclusion. There's a Nobel Prize winner who has
- 22 come to that conclusion. A Ph.D. in physics has
- 23 come to that conclusion. I think there's a math
- 24 teacher in Maine who has come to that conclusion.
  - Q. All right. Dean Snyder, a few final

DIRECT/SNYDER/GREENSPANPage 189

- 1 questions. Did you make any conclusions about the
- 2 way the data was collected the day of the AFC
- 3 Championship Game?
- 4 A. I think it's one of the most intriguing
- 5 things here is that the officials, I think they had,
- 6 actually, very good intuition about what to try to
- 7 do. They didn't just measure the Patriots' balls.
- 8 They measured the Colts' balls. They had the idea
- 9 of a control. They had the idea of measuring both
- 10 sets of balls with two gauges.
- 11 But -- but their intuition only carried them
- 12 so far. There were so many things that they didn't
- 13 have in mind. Now everybody is talking about the
- 14 Ideal Gas Law. I don't think they had the Ideal Gas
- 15 Law in mind when they brought the balls into the
- 16 locker room and measured them at different times.
- 17 They didn't record the timing of those
- 18 measurements. They didn't record the temperatures.
- 19 They didn't make sure which gauge was being used.
- 20 They didn't retain -- find all the gauges.
  - COMMISSIONER GOODELL: They didn't what?
- THE WITNESS: They didn't find all the gauges
- 23 for the pre-game and the -- my reading of the report
- 24 is that there are gauges that were set by the
- 25 Patriots and the Colts in the process described

- **1** earlier that aren't available.
- 2 A. And the moisture point that you raised, I
- 3 don't think anybody tracked what balls were wet, how
- 4 many of them were wet, whether they were in bags.
- 5 And they didn't track what was happening during the
- 6 first half.
- 7 So I would give the officials credit for
- 8 developing a protocol, but the bottom line is that
- 9 it's an impromptu protocol that leaves a lot of
- 10 factors out and not controlled for.
- **11 Q.** Are there steps that could be taken going
- 12 forward to ensure the reliability of measurements
- 13 taken on game-day if people want to evaluate the
- **14** measurements to draw conclusions about them?
- 15 A. Well, I'm not here to offer views about
- 16 protocols, but I'm sure that protocols could be
- 17 developed along those lines if the League decided
- 18 that was important.
- **19 Q.** Dean Snyder, did you reach any conclusions
- 20 about the number of assumptions in Exponent's
- 21 analysis?
- 22 A. A lot of assumptions along the way, just
- 23 saying we are going to switch the data, we are going
- 24 to switch Colts' ball number 3 -- I mean, the Colts'
- 25 data and line them up the way they did, sequencing.

DIRECT/SNYDER/GREENSPAN Page 191

- 1 It's a very large number of assumptions relative to
- 2 actual data observations.
- **Q.** Did Exponent consider all of the data
- 4 available to it?
- 5 A. No, they did not.
- **Q.** Would you be more specific.
- 7 A. Let me give two specifics. The 12th ball,
- 8 the ball intercepted by D'Qwell Jackson during the
- 9 first half, it was measured by, according to the
- 10 report, someone on the Colts' sideline, and then it
- 11 was measured by the NFL Official, Mr. Daniel or
- 12 Daniels, I believe.
- 13 And he, interestingly, he measured that ball
- 14 three times with the same gauge and wrote the
- 15 results on the ball.
- **Q.** Do you remember what the results were?
- 17 A. Well, I think the results -- if you included
- 18 it in the analysis, it would be favorable to the
- 19 view that there was not deflation, first of all.
- 20 But the other thing that I found particularly
- 21 important was, to my knowledge, this was the only
- 22 time during the game that officials used the same
- $23\quad \hbox{gauge and recorded three measurements.}$
- Why is that important? Well, here, you get a sense of potential measurement error. People who

- 1 are not trained to take these gauges, put them in
- 2 the footballs and record temperature -- psi. So
- 3 what do you see?
- 4 You see three measurements on the 12th ball
- 5 and they differ by .4 psi; .4 psi is huge. So the
- 6 measurement error that we are dealing with in this
- 7 environment is the combination of that and the
- 8 protocol. I mean, it just, it really was striking
- $\boldsymbol{9}$   $\,$  to me. And Exponent said we are not going to pay
- 10 attention to the 12th ball.
  - COMMISSIONER GOODELL: Who is Mr. Daniels,
- 12 James Daniel? Not a game official?
- MR. REISNER: No.
- **14 Q.** Other data?
- 15 A. I didn't mean "official" in the sense of
- 16 officiating.

11

- 17 Q. You had said that there was another set of
- 18 data not considered by Exponent. What was that?
- 19 A. The other data, and this goes back to the
- 20 officials having some sense of the protocol, they
- 21 measured post-game. They measured four Colts'
- 22 balls. They measured four Patriots' balls.
- 23 When I saw that, I said to myself, wow, now
- 24 you've got more control data. There's no
- 25 possibility that between halftime and the end of the

DIRECT/SNYDER/GREENSPANPage 193

- 1 game you would have tampering with either sets of
- 2 balls.
- 3 So now we have, in addition to the four
- 4 Colts' balls at halftime, which I described
- 5 unscientifically as a puny control group, now you
- 6 have the ability to triple that with the end of the
- 7 game data; excuse me; the end of the game data. But
- 8 Exponent said we're not going to look at those,
- 9 either.
- **10 Q.** Do you remember anything about the
- 11 measurements of the Patriots' balls post-game
- 12 relative to the measurements of the protocols --
- 13 sorry -- measurements of the Patriots' balls
- 14 post-game compared to their reinflation level at
- Tripoot game compared to them reminded not
- 15 halftime?
- 16 A. Yes. There was a statement that they were
- 17 inflated at halftime to, as I recall, 13. The
- 18 post-game measurements were above 13. Again --
- 19 well, I shouldn't say "again." It's a finding, it's
- 20 a result that just underscores it's so difficult to
- 21 understand what's going on.
- 22 Exponent made a lot of assumptions to
- 23 navigate through the halftime data. I don't know
- 24 what assumptions you would have to make to navigate
- 25 through the post-game data.

### Case 1:15-cy-05916-RMB-1CF age 194 ument 28-230 Filed 08/04/15 Page 53 of 172 196 1 Q. Dean Snyder, last question. What is your 1 A. I believe so. 2 2 bottom-line takeaway from the work of the -- the **Q.** And how many times have you worked with the 3 statistical work of Exponent? 3 Analysis Group in the past? A. It's just not -- it's partly the setting, A. I've been working with them for about seven 4 4 it's partly the impromptu protocol, but it's also 5 5 years, and depends on how you count cases. 6 the work that they have done statistically. The Sometimes cases have different aspect of them. So 6 7 combination is it's not something that leads to 7 you take, for example, the litigation involving LCD 8 reliable conclusions. 8 panels. 9 And, certainly, it's certainly not the kind 9 That's one litigation in some people's minds, 10 of scientific work that I would be comfortable with 10 but it involves a lot of cases in other people's 11 reaching judgments about people. I'm in a very 11 minds. So it's a little hard to count, but I have 12 different situation from the Commissioner, but these 12 worked with them for the past seven years. 13 are -- these are not reliable findings. 13 **Q.** Is it fair to say you have worked with them 14 MR. GREENSPAN: Thank you. 14 on at least a dozen cases over those seven years? 15 15 A. That's probably -- I wouldn't -- I haven't MR. KESSLER: Should we take a little break counted, but I think that -- I wouldn't disagree 16 before we do cross? 16 17 MR. REISNER: Take five minutes, maybe? 17 with that. 18 COMMISSIONER GOODELL: Sure. 18 **Q.** And you receive payment in connection with 19 (Recess taken 2:17 p.m. to 2:28 p.m.) the work that you do at the Analysis Group, correct? 19 20 CROSS-EXAMINATION BY 20 A. Yes. 21 MR. REISNER: 21 **Q.** That payment is separate and apart from the 22 Q. Good afternoon, Dean Snyder. 22 compensation you receive in connection with your 23 Dean Snyder, do you have a degree in 23 duties at Yale, correct? statistics? A. Yes. 24 24 25 A. No. 25 Q. Now, before your testimony today, and in CROSS/SNYDER/REISNERPage 195 CROSS/SNYDER/REISNERPage 197 **Q.** Are you a member of the American Statistical 1 1 connection with the work that you did, did you read Association? the entire Exponent report in connection with your 2 2 3 A. No. 3 analysis? 4 **Q.** To your knowledge, is any member of your team 4 A. Yes. a member of the American Statistical Association? 5 5 **Q.** And so are you aware that, in addition to the 6 A. I don't know one way or the other. analysis of statistical significance and the 6 7 **Q.** As far as you know, no member of your team is 7 difference between the pressure drops in the Colts' 8 a member of the American Statistical Association, and the Patriots' balls, Exponent separately 8 9 correct? 9 conducted a series of other tests and experiments, 10 A. Correct. 10 correct? 11 11 **Q.** Now, you were assisted in your work here by A. Yes. 12 members of the Analysis Group, correct? 12 Q. And among those tests were transient 13 A. Yes, and as well as by Professor Moore. 13 experiments, yes? 14 Q. And the Analysis Group, that's a consulting 14 A. Yes. 15 firm, right? 15 **Q.** And among those tests were game-day simulations, correct? 16 A. Yes. 16 17 17 A. Yes. Q. Very much like Exponent is a consulting firm, 18 correct? 18 Q. I want to focus first on your Finding 1. And 19 A. Well, they're different, but they are both 19 I'm referring to what's in evidence as Exhibit 191. It's the low-tech version of your deck that you just 20 consulting firms. 20 21 Q. And Analysis Group frequently works with 21 presented.

22

23

24

25

Α.

Correct.

And Finding 1 is, "Exponent's statistical

analysis of the difference in average pressure drops

is wrong because it ignores timing," correct?

22

23

24

25

lawyers involved in litigation, correct?

involved in litigation, correct?

Q. And Exponent frequently works with lawyers

# Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 54 of 172 CROSS/SNYDER/REISNERPage 200

1

- 1 Q. And that criticism focuses solely on the
- 2 statistical analysis performed, right?
- 3 A. What they reported, as I said, in Table A3,
- 4 their statistical analysis of difference in
- 5 difference.
- 6 **Q.** This criticism didn't go to the transient
- 7 tests that they performed, right?
- 8 A. I'm not sure what you are asking me. The
- 9 transient test as reflected in Figure 1, those are
- 10 the transient curves that show timing, something
- 11 important.
- 12 Q. But your criticism is directed to their
- 13 analysis of statistical significance, correct?
- 14 A. No, it's their model. Their model did not
- 15 include timing. When you go to the Table A3 and you
- look at the variables they included in their model, 16
- 17 they left timing out.
- 18 **Q.** And when you refer to "their model," you are
- 19 referring to the model used in connection with their
- 20 statistical significance analysis, right?
- 21 A. I don't understand your question. The model 22 did not include timing.
- 23 MR. REISNER: Can we hand the witness a copy
- 24 of the Exponent report.
- 25 MS. GOLD: It's Tab 1 (handing).

# CROSS/SNYDER/REISNERPage 199

- 1 **Q.** So you understand that the Exponent report
- consisted of at least three components: A 2
- 3 statistical significance analysis, a transient
- 4 analysis and game-day simulations?
- 5 A. I don't -- I don't understand your first
- 6 characterization. They did an analysis of the
- 7 difference in difference. They tried to explain it
- 8 and they didn't include timing.
- 9 That's not the first -- that's not how I
- 10 would characterize the first component of their
- 11 work. That's what they said was their most
- 12 significant work. I think --
- 13 **Q.** Show me where in the report it says that's
- 14 their most significant work.
- 15 A. I think it's in my slides.
- 16 Q. I didn't ask you about your slides. Where in
- 17 their report does it say it's their most significant
- 18 work?

23

- 19 A. It's the quote on my slide that identifies
- 20 the difference in average pressure drops, Exponent
- 21 Scenario 2.
- 22 It says, "What is most significant about the
- halftime measurements is that the magnitude of the
- 24 reduction in average pressure was greater for the
- Patriots football."

- **Q.** So your testimony is that that quote says
- 2 that's the most important part of their analysis?
- 3 A. Well, I think most people would agree that
- that is the most important. I mean, you heard 4
- 5 Mr. Nash's questions and opening. And he focused on
- the difference in difference. The difference in 6
- 7 difference is the key to the case.
- 8 **Q.** Is it a fairer way to describe the Exponent
- 9 work as that they looked at the statistical
- 10 significance analysis as the starting point to see
- 11 whether there was more to study? Isn't that a
- 12 fairer way to describe the Exponent report?
- 13 A. I don't think so.
- **Q.** Let me direct your attention to the Exponent 14
- 15 report at page X, Roman X. And the second-to-last
- 16 paragraph reads, "It also appears that the Patriots'
- 17 game balls exhibit a greater average pressure drop
- 18 than did the Colts' game balls. This difference in
- 19 the magnitude of the decrease in average pressure
- 20 between the Patriots and the Colts footballs as
- 21 measured at halftime was determined to be
- 22 statistically significant, regardless of which
- 23 gauges were used pre-game and at halftime.
- 24 Therefore, the reasons for this difference were an
- 25 appropriate subject for further investigation."

# CROSS/SNYDER/REISNERPage 201

- Does that refresh your recollection that the
- 2 entire model of the Exponent study was to look at
- 3 statistical significance first to see whether there
- 4 was something to be studied further and then to
- 5 conduct experiments?
- 6 A. If that's the logic, I just don't understand
- 7 it. I mean, you read the Exponent report. I gave
- 8 you the quotes. They say that timing, minute by
- 9 minute, matters. But when they decide whether they
- 10 have a significant result or not, and they base
- 11 conclusions on it, their own model, you just read
- 12 the first page of the appendix and they didn't
- 13 include it as an explanatory variable in their own
- 14 model.

- 15 Just look at Table A3. Look at their
- 16 equation. If you can show me -- if anybody can show
- 17 me that in their statistical model that they used
- 18 timing after stating and proving to the world that
- 19 timing matters, then I will change my view. But the
- 20 basic thing, and you don't have to be an expert in
- 21 anything other than statistics or econometrics to
- 22 know this.
- 23 **Q.** You did not read the report as structured,
- 24 first, let's see whether there is a statistically
- significant difference? Without --25

# Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 55 of 172 CROSS/SNYDER/REISNERPage 204

- 1 A. Without taking into account timing --
- 2 **Q.** Let me just finish my question.
- 3 A. Oh, I'm sorry.
- 4 **Q.** If, yes, then let's conduct experiments to
- 5 see what is responsible for the difference. That's
- 6 not the way you read the report?
- 7 A. Your characterization is incorrect.
- 8 **Q.** I'm just asking whether you read the report.
- 9 A. Excuse me. You are saying they first did a
- 10 model to figure out if it was statistically
- 11 significant. The model didn't include timing. It's
- 12 not like they said we have a statistically
- 13 significant result independent of a model. They
- 14 included variables to explain it, right?
- 15 That's what their model does and they left
- 16 timing out. So they only got to, I think we agree
- 17 they only got to a statistically significant result
- 18 by excluding timing.
- 19 **Q.** We don't agree. And A3 and the model that
- 20 you are referring to, that's included in Appendix A
- 21 to their report, correct?
- 22 A. That's their model. That's the model they
- 23 ran.
- 24 **Q.** But my question is: That's included as
- 25 Appendix A to their report, correct?

# CROSS/SNYDER/REISNERPage 203

- A. Yes, A3, yes, that identifies the model that 1
- 2 they ran that generated their so-called
- 3 statistically significant result.
- 4 **Q.** And that appendix is referenced in connection
- with their statistical significance analysis, right? 5
- 6 A. No. That's their model. That's their model
- to explain the difference in difference. 7
- 8 Q. And your criticism is that Exponent didn't
- 9 take into account timing appropriately, right?
- A. When they tested -- when they did their 10
- 11 difference in difference analysis, you look at the
- 12 equations. If I could refer you to the appendix.
- 13 **Q.** It would be better if you could answer my 14 question.
- 15 MR. GREENSPAN: And I would ask you to just
- 16 let him answer the question.
- 17 MR. LEVY: Knock it off.
- 18 A. When you say their analysis of statistical
- 19 significance, that's an error. That's simply an
- 20 error, okay? They do an analysis to explain the
- 21 difference in difference and they don't include
- 22 timing. And on that basis, they conclude that it is
- 23 statistically significant and then they say that
- 24 there's a finding that follows that. It's a finding
- 25 that is flawed.

- 1 **Q.** But they included timing in other aspects of
- 2 their work, didn't they?
- 3 A. I'm sorry. Yes, they did side analyses
- throughout. 4
- **Q.** What makes you call them "side analyses"? 5
- 6 Where are they called side analyses in the report?
- 7 A. That's my characterization.
- 8 Q. Okav.
- 9 A. And I believe -- I believe -- it's a fair
- point. I believe that the core analysis here is the 10
- 11 difference in difference analysis. I think any fair
- 12 reading of their report indicates that the
- 13 difference in difference analysis is the core and
- 14 their model excluded timing.
- 15 Q. And you understand that they conducted
- 16 transient experiments, right?
- 17 A. Transient experiments is what generated
- Figure 22, which tells you timing should be 18
- 19 included.
- 20 **Q.** And the purpose of the transient experiments
- 21 was to determine the impact of timing of the
- 22 halftime measurements on air pressure levels,
- 23 correct?
- A. Yes. 24
- 25 Q. And from reading the Exponent report, you

# CROSS/SNYDER/REISNERPage 205

- 1 understood that the main focus of the transient
- 2 experiments was to determine whether the timing of
- 3 the halftime measurements could explain the
- 4 difference in the pressure drops observed between
- the Patriots' balls and the Colts' balls? That was 5
- 6 your understanding from reading the report, right?
- 7 A. I couldn't tell what they were doing with
- 8 that. And when you say "explain," there was
- 9 language to the effect could they explain fully,
- 10 under certain parameters.
  - So I think, I think you would have to ask
- 12 Exponent what they were trying to do and if they
- 13 were trying to set up an experiment that used timing
- 14 to explain everything.
- 15 But it was different, I agree, from the
- 16 difference in difference analysis that was featured
- 17 in their report on which they claim they had
- 18 statistically significant results.
- 19 **Q.** Okay. So let me ask you to turn to page 43
- 20 of the Exponent report. And fourth paragraph down,
- 21 second sentence, third sentence referring to the
- 22 transient experiments, "Therefore, the main focus of
- 23 the transient experiments was to determine if
- 24 variation in measurement timing was sufficient to
- 25 explain the variation in the observed differences

# Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 56 of 172 CROSS/SNYDER/REISNER Page 208

- 1 than the average pressure drops between the teams
- 2 given the range of likely environmental factors
- 3 present on game day and the realistic timing of
- 4 measurements given the sequencing and duration of
- 5 the various events known to have occurred at
- 6 halftime."
- 7 So was it your understanding that the purpose
- 8 of the transient experiments was to determine
- **9** whether the timing of the halftime measurements
- 10 could explain the difference in the pressure drops
- 11 observed between the Patriots' balls and the Colts'
- **12** balls?
- 13 A. I think a fairer reading of this statement,
- 14 which I think is revealing, is that they were trying
- 15 to do these other analyses and determine whether
- 16 these transient analyses were sufficient on their
- 17 own to explain the difference in difference.
- **18 Q.** That's your interpretation or that's what it
- **19** says in the report?
- 20 A. Well, it says right here, "The main focus of
- 21 the transient experiments was to determine if
- 22 variation and measurement timing was sufficient to
- 23 explain."
- 24 It doesn't say "partially explain" or whether
- 25 it's a relevant variable. It doesn't say whether

# CROSS/SNYDER/REISNERPage 207

- 1 timing should be included in the analysis. It
- 2 doesn't say because it's not sufficient, we are
- 3 going to exclude it.
- 4 It just says we are going to do this test to
- ${f 5}$  see if timing is sufficient to explain, and I think
- 6 it's a fair reading --
- **7 Q.** Yes.
- 8 A. -- everything.
- **9 Q.** And so you are not suggesting, Dean Snyder,
- 10 that Exponent failed in its work to identify and
- 11 consider the timing of the measurements as a factor
- 12 to be considered? You are not suggesting that,
- 13 right?
- 14 A. In their core analysis, exactly.
- **Q.** You are calling it a core analysis, but in
- **16** their statistical significance analysis, correct?
- 17 A. That's not the right term. I'm sorry to --
- 18 to -- to correct you on this. They had a difference
- 19 in difference analysis on which they reached their
- 20 core findings that there was this -- this didn't
- 21 happen by chance.
- **Q.** Did they use their statistical significance
- 23 analysis to reach conclusions as to the likelihood
- 24 of tampering?
- 25 A. Well, I think I have it in my slides.

- 1 Q. Can you answer my question without looking at
- 2 your slides?
- 3 A. No, I can't, because I spent a lot of time
- 4 trying to get this right. And it's very clear that
- 5 their finding on statistical significance is what
- 6 leads to their "therefore" statement. So you might
- 7 as well just refer to the slides. I think you get
- 8 the best -- the best guidance.
- **9 Q.** Well, I think, frankly, the best guidance
- 10 comes from the Exponent report and not your slides
- 11 as to what Exponent studied. And the question is --
- 12 A. It's a quote from Exponent.
- **Q.** -- did Exponent rely on their statistical
- 14 analysis of the data to reach conclusions as to the
- 15 likelihood of tampering, or did they rely on other
- **16** aspects of their experimental work, if you know?
- 17 A. I will just read what Exponent stated based
- 18 on their difference in difference analysis.
- **19 Q.** Do you have a page number for what you are
- 20 reading?

25

- 21 A. Yes, Exponent report, Table 8 on page 11.
- 22 Quote, "In other words, in all cases studied, the
- 23 additional pressure drop exhibited by the Patriots'
- 24 footballs is unlikely to have occurred by chance."
  - Q. "Unlikely to have occurred by chance,"

# CROSS/SNYDER/REISNERPage 209

- 1 doesn't say anything there about likelihood of
- 2 tampering or human intervention, does it?
- 3 A. I will let -- I will let other people figure
- 4 out what they were intending to state there.
- **Q.** I think what they were intending to state is
- 6 what they stated, and it doesn't refer to likelihood
- 7 of tampering, does it? Does it refer to likelihood
- 8 of tampering?
- 9 A. I don't have an answer to that one.
- **Q.** Are there other aspects of the Exponent
- 11 report that do directly address likelihood of
- 12 tampering based on experiments conducted and
- 13 analyses of data generated based on those
- **14** experiments?
- 15 A. I don't know what you are asking me.
- **16 Q.** I'm asking you just what I asked you.
- 17 A. It's just a general question.
- **18 Q.** It's really not a general question. I'm
- 19 asking: Do you know based on your review of the
- **20** Exponent report whether there are other portions in
- 21 their report in which they do draw conclusions about
- 22 likelihood or probability of tampering based on
- 23 experimental results?
- 24 A. I don't think.
- **Q.** You don't remember?

- 1 A. I don't know what -- I don't know what -- I
  - don't even understand the question. I view this as
- 3 the standard approach when you find statistically
- 4 significant results to draw conclusions. And I
  - think this is exactly the conclusion that they were
- 6 drawing.

5

7

8

18

24

2

- And I think any reasonable reading of it speaks to the issue of whether this extra deflation
- 9 was the result of chance or something else. You are
- 10 telling me, well, it doesn't say "tampering." I
- 11 understand that. But I will just let other people
- 12 read this.
- **Q.** But something else could be timing, right?
- 14 A. Does it say "timing"?
- **15 Q.** It says, "It is unlikely to have occurred by
- **16** chance and further study is warranted."
- **17** And timing was studied, right?
  - A. And why not include timing in the original
- 19 model? They have a list of variables that they
- 20 include in their original model, but they excluded
- 21 timing. Isn't that the key thing here?
- 22 Why go to a side analysis and say timing is
- 23 sufficient to explain everything? Put it in your
- 25 the Econometrics Society in the past. Any graduate
  - CROSS/SNYDER/REISNERPage 211

original model. Come on. And, yes, I'm a member of

- 1 student in statistics or econometrics would know
  - this is wrong. This is a restriction. This is
- 3 saying timing is unimportant despite reading the
- 4 Exponent report. It's timing all over the place.
- **Q.** Well, I would move to strike if this were in
- 6 real court, but I won't move to strike.
- **7** But I'm sure Exponent will not describe their
- 8 other work as a side analysis and would describe
- 9 their work quite differently than you are describing
- 10 it. And I think we will have the opportunity to
- 11 hear from them.
- **12** Didn't even the statistical significance
- 13 analysis used by Exponent incorporate something
- 14 called an order effect to account for the timing of
- **15** the ball measurements at halftime?
- 16 A. When you talk about the analysis on which
- 17 they reached their conclusions, no. They did do a
- 18 separate analysis to which they referred, I think,
- 19 in the appendix in a particular footnote at the very
- 20 end where, instead of evaluating timing, they took
- 21 the order of the balls and they discussed unreported
- 22 results.
- **Q.** And what you referred to as their appendix at
- 24 the very end, right now in your answer is what you
- 25 previously described as the core of their work in

- 1 Appendix A, right?
- 2 A. Well, the core of their work in Appendix A
- 3 explains how they -- the details of their model,
- 4 which is discussed at length. In the appendix, they
- 5 also refer to unreported results in a footnote. I
- 6 think you are talking about a footnote where they
- 7 discuss unreported results.
- 8 There is no equation. There is no table and
- 9 it's not timing. It's order of football
- 10 measurement. And I would be happy to find it. It
- 11 actually is a very interesting statement on their
- 12 part.
- 13 Q. It's at Page A3 of their appendix and it's at
- 14 Footnote 49. And when you look at that footnote,
- 15 isn't it a fact that, "Exponent explicitly took
- 16 account of time effect in their statistical analysis
- 17 by incorporating an order effect into their model to
- 18 determine whether any portion of observed
- 19 ball-to-ball variation and pressure was explained by
- 20 the order of measurements"?
- 21 Isn't that right?
- 22 A. Here's the --
- **Q.** Is that right? Is that what that footnote
- **24** says?

- A. You said "timing" in your question. That's
  - CROSS/SNYDER/REISNERPage 213
- 1 not timing. It's order of measurements.
- **Q.** It says "timing." It says, "To account for
- 3 any time effect in our statistical analysis, we
- 4 incorporated an order effect into our statistical
- 5 model to determine whether any portion of the
- 6 observed ball-to-ball variation in pressure was
- 7 explained by the order of measurements."
- 8 A. Are you just asking me is that what it
- 9 states?
- 10 Q. Well, is that what it states?
- 11 A. It is. That's what they've stated.
- **Q.** And that incorporated the concept of timing
- 13 into their statistical model, didn't it?
- 14 A. No. Here's what this did.
- **15 Q.** That's fine. I will just leave it right
- 16 there.
- 17 A. I would like to explain. It's an important
- 18 point. It's not timing. It's order of ball
- 19 measurement. That's the so-called explanatory
- 20 variable. And the variable that they are trying to
- 21 explain, the so-called dependent variable, is not
- 22 the difference in average pressure drop.
- 23 It's not the difference in difference
- 24 analysis. It's ball-to-ball variation, which we
- 25 know is subject to so much measurement error that

# Case 1:15-cy-05916-RMB-1CF Document 28-230 Filed 08/04/15, Page 58 of 172 Case 1:15-cy-059/SNYDER/REISNERPage 216

- 1 I'm not surprised it doesn't explain that.
- **Q.** But it takes time to measure ball 1 through
- 3 ball 15, correct?
- 4 A. Are ball 1 and 15 all measured at the same
- 5 increments in time? That embodies an assumption.
- **Q.** My question is, did it take time to measure
- **7** ball 1 through ball 15?
- 8 A. Yes.
- **9 Q.** Do you know, based on the report,
- 10 approximately how much time it took to measure from
- **11** ball 1 through ball 15?
- 12 A. Well, there's uncertainty. That's what
- 13 the -- that's what the report says. We don't know.
- **Q.** And there are estimates in the report about
- **15** how long it took, correct?
- 16 A. Under certain assumptions. And this, this
- 17 analysis does not play it out. They don't explain
- 18 whether they took those different assumptions into
- 19 account.
- **Q.** But you will agree, won't you, that it had to
- 21 take some time to gauge 15 balls going from
- 22 ball 1 --
- 23 A. Yes.
- **Q.** -- to ball 15, correct?
- 25 A. Yes.

# CROSS/SNYDER/REISNERPage 215

- **1 Q.** So whatever time it took, you would expect it
- 2 to be reflected in the ball data, correct?
- 3 A. Well, certainly time, it takes time to gauge
- 4 balls. But again, the dependent variable here has
- 5 nothing to do with a difference in difference
- 6 analysis. It has to do with the ball-to-ball
- 7 differences.
- 8 That's what -- I can read it again, but
- 9 you've already put it into the record. It's not --
- 10 it's not a test of -- it's not a check on their
- 11 difference in difference analysis.
- **Q.** And in their -- in their transient analysis,
- 13 Exponent expressly took account of the full period
- 14 of halftime and expected psi levels of the Colts'
- 15 balls and the Patriots' balls based on the testing
- **16** that they performed, didn't they?
- 17 A. Yes.
- **Q.** Now I want to focus your attention on
- 19 Finding 3 in your deck. Finding 3 says, "If the
- 20 logo gauge was used to measure the Patriots' balls
- 21 before the game, then eight of the eleven were above
- 22 Exponent's expected outcome.
- Now, to reach this conclusion, your analysis
- 24 assumes that the actual or true pressure of the game
- **25** balls delivered to the referee by the Patriots was

- **1** 12.17 psi, right?
- 2 A. This is just consistently applying the master
- 3 gauge correction to both the halftime measurements
- 4 of the game balls and to the starting value, which
- 5 does have the effect that you just described.
- **Q.** So your assumption is that, the assumption in
- 7 your analysis is when the balls were delivered by
- 8 the Patriots to the refs pre-game, that the psi
- **9** measurement of the balls was 12.17, correct?
- 10 A. It's a little -- there are a few side issues.
- 11 I'm not going to quibble too much. It's basically
- 12 right. There were some adjustments by
- 13 Mr. Anderson --
- **14 Q.** Yes.
- 15 A. -- to get the balls using one of the gauges
- 16 to what he thought was about, according to the
- 17 record, about 12.5. What this means is, if he used
- 18 the logo gauge, this is just sort of basic
- 19 subtraction, if he used the logo gauge to get those
- 20 Patriots' balls calibrated to 12.5, and that logo
- 21 gauge reads about .3, a little bit more than .3
- 22 above 12.5, then the effective starting value is
- 23 what you said.
- **24 Q.** 12.17, right?
- 25 A. Correct.

# CROSS/SNYDER/REISNERPage 217

- 1 Q. So you understand that according to the
- 2 Patriots themselves, the psi level at which they
- 3 delivered game balls to the referee for the AFC
- 4 Championship Game was not 12.17, right?
- 5 A. They used a gauge and we don't know what
- 6 gauge they used and we don't know if their gauge had
- 7 the same kind of differential that the logo gauge
- 8 had versus the non-logo gauge.
- **9 Q.** My question really went to your understanding
- **10** of the psi level that the Patriots said they
- **11** delivered the ball to the ref pre-game.
- **12** And my question is, do you understand that
- 13 the Patriots say that the psi level that they set
- 14 the balls to before the game was 12.5 or 12.6? Is
- **15** that your understanding of the Patriots' position?
- 16 A. With their -- with whatever gauge they used,
- 17 that's their understanding, you are right.
- **Q.** So the answer to my question is yes, that's
- **19** your understanding?
- 20 A. Yes, but we don't know what that gauge was.
- 21 We don't know if that was giving accurate measures 22 or not.
- **Q.** The Patriots didn't say that they delivered
- 24 the balls to the ref at 12.17, right?
- 25 A. Correct. And we don't have -- correct.

# Case 1:15-cv-05916-RMB-1CF Document 28-230 Filed 08/04/15, Page 59 of 172 Case 1:15-cv-059/SNYDER/REISNERPage 220

5

- **Q.** And you know that the NFL playing rules
- 2 require that balls be between 12.5 and 13.5 psi,
- 3 correct?
- 4 A. Correct.
- **Q.** So your analysis basically assumes that the
- 6 Patriots delivered game balls to the referee before
- 7 the game that were underinflated in violation of the
- 8 rules?
- 9 A. No. It means that if they used a gauge that
- 10 was like the logo gauge, they would have delivered
- 11 balls that were 12.5 and they didn't know it.
- **Q.** How about if they used a gauge that was like
- 13 the dozens and dozens of gauges that
- 14 Exponent studied as part of its work in this case,
- 15 all of which read relatively close to the master
- **16** calibrated gauge?
- 17 What if they used one of those dozens and
- 18 dozens and dozens and dozens of gauges? Would the
- 19 reading have been 12.17 or would the reading have
- **20** been 12.5 or 12.6?
  - A. Clearly if they used the new gauges bought by
- 22 Exponent through particular sources that were all
- 23 alike, that would be true. But we don't know what
- 24 Patriots' gauge was used and there is no basis in
- 25 the report.

21

# CROSS/SNYDER/REISNERPage 219

- 1 And this is just part of the problem that you
- get into when you go down these rabbit holes. Youdon't have the Patriots' gauge. You don't know if
- 4 that was an older gauge. There's evidence to
- 5 indicate that older gauges read higher than new
- 6 gauges.

7

- Exponent collected a bunch of new gauges and
- 8 said, oh, new gauges, fine. No surprise there. I'm
- 9 not -- I'm not quarreling with this. It's just the
- 10 major point here is there are just so many
- 11 uncertainties.
- 12 Q. Again, I just can't resist to move to strike,
- 13 but I don't know whether that's applicable in this
- **14** proceeding or not.
- **15** Part of your analysis in your finding or
- 16 criticism 3 is an application of the Ideal Gas Law,
- **17** right?
- 18 A. No. I think that's just math. They are just
- 19 doing math there.
- **Q.** But the math is plugging numbers into the
- 21 Ideal Gas Law formula, isn't it?
- 22 A. I'm not quarreling with the math on the Ideal
- 23 Gas Law formula, I'm only quarreling with their
- 24 inconsistency in applying the master gauge
- 25 conversion.

- **Q.** In your conclusion that, "Eight out of eleven
- 2 were above Exponent's expected outcome," "expected
- 3 outcome" means based on an application of the Ideal
- 4 Gas Law, correct?
  - A. And if they --
- **Q.** Can you answer that question "yes" or "no"?
- 7 A. No, I can't, because there are two parts to
- 8 establishing the relevant scientific threshold given
- 9 Exponent's own methodology. One is to do the math
- 10 on the Ideal Gas Law correctly. The other is to do
- 11 the math on the conversion consistently. They
- 12 didn't do the latter. I'm just correcting the
- 13 latter.
- **14 Q.** Would you agree that the Ideal Gas Law is
- 15 not, in practice, going to yield a directly relevant
- 16 measure because the balls were not tested on the
- 17 field at 48 or 50 degrees, but tested subsequently
- 18 in the locker room at a warmer temperature?
- 19 A. I think that's true. I don't think anybody,
- 20 prior to this whole issue, understood -- they
- 21 understood the Ideal Gas Law, but that's a sort of
- 22 abstract law. How that law actually applies to
- 23 footballs being brought in from the field, that's
- 24 all, you know, Exponent had to do the transient
- 25 analysis to understand how footballs would react

# CROSS/SNYDER/REISNERPage 221

- 1 when they were brought in and warm up and dry.
- **Q.** Exactly, which is why the Ideal Gas Law
- 3 itself only has theoretical applicability to this
- 4 problem and not practical applicability, because the
- 5 balls were not measured at some frozen temperature
- 6 at the end of halftime outside, but had an
- 7 opportunity to warm to some degree, fair?
- 8 A. I think that's a fair point.
- **9 Q.** In any event, you concede that if the
- 10 non-logo gauge was used pre-game, application of the
- 11 Ideal Gas Law cannot account entirely for the
- **12** pressure drops observed in the Patriots halftime
- **13** measurements, correct?
- 14 A. You are talking about the analog to -- I just
- 15 want to be clear -- the analog to --
- **16 Q.** Your criticism doesn't apply to the use of
- 17 the non-logo gauges used pre-game, correct?
- 18 A. That's correct. This is their structure.
- 19 The mistake on the inconsistent master gauge
- 20 conversion is only substantively important under the
- 21 assumption that the logo gauge was used, not under
- 22 the assumption that the non-logo gauge was used.
- 23 Q. And just flipping back for a moment to your
- 24 criticism 1, what you call Case 1.
- 25 COMMISSIONER GOODELL: Where?

### Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 60 of 172 CROSS/SNYDER/REISNERPage 224 1 MR. REISNER: This is at page 3437, Bates 1 variability, they were doing it based on the raw 2 2 Number 3437 in this deck. data, correct? 3 **Q.** When you recalculate the statistical 3 A. I don't even know what that means, "on the 4 significance analysis by Exponent, you yield a raw data." 4 5 p-value of .067, correct? 5 **Q.** Based on the halftime measurements and only 6 A. Yes. 6 the halftime measurements. 7 **Q.** And is it fair to say that that p-value means 7 A. I'm just lost. They compared the variance 8 8 and they didn't find a statistically significant that there's a 6.7 percent likelihood that chance 9 9 difference, even after they had flipped the Colts' explains the variation and a 92.3 percent chance or 10 likelihood that chance does not explain the outcome? 10 ball number 3, which reduced the variance in the 11 A. Correct. 11 Colts' balls measurements. 12 **Q.** Just a couple of questions about your finding 12 **Q.** And when they reported their observations on 13 Number 2, which looking at the front page of your 13 variability later in the report on page 62, they 14 deck says, "Exponent improperly draws conclusions 14 weren't just relying on the raw halftime data; they 15 15 based on the variability in halftime pressure were also relying on learning from the transient 16 measurements despite conceding that variability is 16 experiments that they performed, correct? 17 statistically significant." 17 A. I'm not sure if I am following your question. 18 The conclusion that you are challenging, 18 I'm happy to look at page 62. 19 19 Q. Look at page 62 of the report. Page 62 last Dr. Snyder, is the statement by Exponent at page 62 20 20 paragraph, first sentence, "The fluctuations in of its report that, "Therefore, subject to the 21 discovery of an as-yet unidentified and unexamined 21 pressures" --22 22 factor, the most plausible explanation for the A. I'm sorry, sir, sorry to interrupt. I see. 23 variability in the Patriots halftime measurements is 23 I was on the wrong page. If you could just pause a 24 that the eleven Patriots' footballs measured by the 24 second; yes. 25 25 officials at halftime did not all start the game at Q. Reading at the first sentence in the last CROSS/SNYDER/REISNERPage 223 CROSS/SNYDER/REISNERPage 225 1 or near the same pressure," right? 1 paragraph on page 62, "The fluctuations in pressures 2 A. Well, that's true. 2 between the pairs of Patriots' football measurements 3 Q. Is that the conclusion that you are 3 highlighted in Table 15 exceed those expected based 4 4 on the transient curves." 5 5 A. Well, it's two things. One, is they proceed Does that refresh your recollection that in with a conclusion without having found a 6 6 making their conclusions and stating their 7 statistically significant difference. And then, 7 observations as to variability later in the report, secondly, when they say, "As-yet unidentified and 8 8 they didn't rely simply on the raw halftime data, 9 unexamined factor," they examined timing. It was 9 but also on the learning that they obtained based on 10 right there in their own Figure 22. They just 10 their transient experiments? 11 11 didn't bring it up. A. I guess you would have to ask them exactly 12 Q. Well, but that's not really fair. When they 12 what their bases were and if they were willing to 13 13 say we didn't find this statistically significant determined absence of statistical significance as to 14 variability, they were just looking at the raw data, 14 difference, but then for some other work that they 15 right? 15 did, they were willing to reach this conclusion. 16 A. I don't know why that's not --16 Q. Okay. We'll do that. 17 17 **Q.** Can you answer? MR. REISNER: Nothing further at this time. 18 A. What I said was fair. It's exactly fair. 18 MR. GREENSPAN: Nothing from me. 19 They set up statistical significance as a standard. 19 COMMISSIONER GOODELL: Thank you. Appreciate 20 They used it in their difference and difference 20 your time. 21 analysis and then they dropped it for this and they 21 THE WITNESS: Thanks, Mr. Commissioner. 22 went on to make an inappropriate conclusion and they 22 MR. KESSLER: Let me just do some

23

24

25

housekeeping. Mr. Levy indicated to me that you

Kraft and the two declarations of Mr. Maryman, so

didn't have copies of the Declaration of Robert

23

24

ignored timing.

Q. Okay. When they made their lack of

statistical significance finding with respect to

### Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 61 of 172 CROSS/SNYDER/REISNER Page 226 1 let me just identify that. 1 **Q.** Mr. Vincent, would you please state your name 2 2 The Kraft Declaration is NFLPA 168 and the for the record. 3 Maryman Declaration is NFLPA 4 and NFLPA 6. And the 3 A. Troy Vincent. next witness we would call is Mr. Vincent, if you Q. And, Mr. Vincent, what is your current 4 4 5 want to proceed right to that. 5 occupation? 6 COMMISSIONER GOODELL: Yes. 6 A. I am the Executive Vice President of Football 7 MR. KESSLER: I'm just going to note for the 7 Operations here at the National Football League. 8 record, we have been keeping count. We have the NFL 8 Q. Could you please tell us what are your 9 at one hour and 45 minutes out of their two-hours' 9 responsibilities as the Vice President For Football 10 allotment that you gave to them. 10 Operations? 11 11 And what do we have for ours, Heather? We A. My responsibility and our department is 12 will tell you ours in a second to see if we are 12 charged with preserving the integrity of the game, 13 correct. 13 overseeing all of football operations, day of the 14 MR. LEVY: I think it's two hours and 14 game, uniform violations. 15 15 42 minutes, but I am keeping track. But as noted in **Q.** So that would include basically everything 16 my correspondence, the Commissioner is inclined to 16 that happens on game-day; is that fair? 17 grant at least another hour on the end and is 17 A. It's fair. 18 willing to show flexibility at the end of that hour. 18 Q. And that would include the referees' testing 19 So we should continue to proceed ahead here. of footballs? That would be something within your 19 20 20 personal jurisdiction; isn't that correct? MR. KESSLER: I just want to be clear about 21 this because I have been planning my examination 21 A. Yes, sir. 22 22 based on that I would have to make some good cause **Q.** And would you be the most senior person, 23 showing as you indicated for something else, and 23 short of the Commissioner, who is responsible for that particular set of activities? 24 there are additional witnesses that I would call. 24 25 25 If I'm going to just automatically be granted, you A. Dean Blandino would be the other. DIRECT/VINCENT/KESSLERPage 227 1 know, an hour, at least, then I have got more people 1 **Q.** I'm sorry; who was that? 2 to call about this. I'd just like to be advised 2 A. Dean Blandino, head of officiating. 3 about what my rules are. That's, I think that's 3 **Q.** Does he report to you? 4 4 A. Yes, sir. 5 5 MR. LEVY: You have got at least another **Q.** Okay. So again, I'm just trying to think, hour, and we will be flexible beyond that. If you 6 6 7 have got other witnesses to call, have them 7 how the officials would test game balls than

8 available.

MR. KESSLER: Okay. Well, I've already asked 9 10 that I would like two additional witnesses I 11 mentioned, and so I assume they are here, so I will 12 call them if I now have the time to do it. Let me 13 see how it proceeds with Mr. Vincent and Mr. Wells 14 and I will see how much time I have used up. 15 MR. LEVY: Jeffrey, who are the two

16 additional witnesses? 17 MR. KESSLER: Dr. Marlow and Mr. Gardi, both

18 of whom I believe are here. COMMISSIONER GOODELL: Go ahead, please.

19 20 TROY VINCENT, called as a witness, having

22 State of New York, was examined and testified as

been first duly sworn by a Notary Public of the

23 follows:

24 DIRECT EXAMINATION BY

25 MR. KESSLER:

# DIRECT/VINCENT/KESSLERPage 229

there is no one more senior to you responsible for

possibly the Commissioner; isn't that correct? 8

9 A. That's correct.

10 Q. Okay. So let me ask you first, Mr. Vincent,

11 how did you first learn that there was any issue or

12 allegation about the footballs that the Patriots

13 were using in the AFC Championship Game?

14 A. It was first brought to my knowledge

15 approximately six or seven minutes remaining in the 16 second half [sic] of the AFC Championship Game.

17 There was a knock on the door by the General

Manager from the Indianapolis Colts, Ryan Grigson. 18 19 He proceeded in the room and he brought to myself,

20 and Mike Kensil was actually sitting to my left, and

21 said, "We are playing with a small ball." That was

my first knowledge of the situation. 22

23 **Q.** You had never heard anything about the Colts

24 having made allegations before the game started

25 prior to that time?

### Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 62 of 172 1 A. No, sir. 1 game? 2 2 Q. Okay. And what did you do after --A. There's one gauge, yes, sir. 3 COMMISSIONER GOODELL: Did you say "second 3 **Q.** There is one gauge or multiple gauges? 4 half"? 4 A. Well, there's two, two gauges, but they 5 THE WITNESS: It was second quarter. 5 use -- they use the one gauge to test. 6 COMMISSIONER GOODELL: Second quarter. 6 **Q.** Right. But you knew there were two types of 7 **Q.** What did you do after you received this 7 gauges that could be used? 8 allegation from the Colts in the second guarter of 8 9 the game?

- A. So immediately as Ryan stepped out of the 11 room, I turned to my left and I just told Mike that 12 during halftime we should probably look at testing 13 all of the balls from both sidelines. And at that 14 particular time, he was on the phone with our 15 sideline officials putting steps in order.
- 16 **Q.** So you were the one who made that decision 17 for that testing to be done?
- 18 A. From inside the box, both Mike and I, we both 19 agreed that this should take place, yes, sir. 20 **Q.** Okay. Now, prior to this time, when this 21 happened, were you familiar at all with the 22 procedures that the officials utilized for testing 23 pressure in footballs at games? Was that something
- 24 you were familiar with or was this the first time 25 you became familiar with that?

# DIRECT/VINCENT/KESSLERPage 231

- 1 A. No, I'm actually familiar, I was familiar 2 with the game-day process of the testing of game 3 balls on game day, yes, sir.
- Q. Okay. So prior to this game, okay, had you 4 ever heard of the Ideal Gas Law? 5
- 6 A. No, sir.

10

- 7 Q. Do you know if anyone in the NFL Game-Day
- 8 Operations had ever discussed the impact of the
- 9 Ideal Gas Law in testing footballs?
- 10 A. Not with me.
- 11 Q. You had never heard of that?
- 12 A. I hadn't.
- 13 **Q.** Okay. Now, in the procedures that were set
- 14 up prior to this game, okay, were there ever any
- 15 procedures where the referees were told they should
- 16 record temperature inside the room while they were
- 17 testing each football? Do you know if that was ever
- 18 an instruction given to the referees that they
- 19 should write down temperature or take temperature?
- A. No, sir. 20
- 21 Q. Okay. That was not done?
- 22 A. No, sir.
- 23 Q. Okay. How about recording? Did you know
- 24 that they used multiple gauges sometimes, different
- types of gauges to test footballs prior to this

- A. Not types. I know that there are two gauges
- 9 that are on the premises.
- 10 Q. The logo gauge and what we are calling the
- non-logo gauge? 11
- 12 A. Yes.
- 13 **Q.** Did officials have instructions prior to this
- 14 game as to whether they should use a logo gauge or a
- 15 non-logo gauge to test?
- 16 A. Not to my knowledge.
- 17 Q. Okay. Were they asked to record anywhere in
- 18 writing which gauge they used when they were doing
- 19 testing?

21

1

- 20 A. Not to my knowledge.
  - **Q.** Okay. Were there any steps taken to preserve
- 22 gauges as they were utilized to keep them somewhere?
- 23 A. The referee usually keeps them.
- 24 **Q.** The referee usually keeps his own gauges?
- 25 A. Yes.

- **Q.** Now, with respect to whether the balls were
- 2 wet or dry, do you know if there were any procedures
- 3 prior to this to record if a ball was wet or dry at
- 4 the time it was being tested for pressure?
- 5 A. No, sir.
- 6 **Q.** Okay. How about the timing of when the
- 7 testing was done? Was it ever instructed you should
- record what minutes the test was done so you could 8
- 9 see how long the ball was in the room at the time of
- 10 testing?
- 11 A. No, sir.
- 12 Q. Okay.
- 13 COMMISSIONER GOODELL: Mr. Kessler, just so
- 14 I'm clear, are you talking about pre-game?
- 15 MR. KESSLER: Yes, I'm talking about pre --
- 16 about the whole game.
- 17 Q. My questions apply to the whole game. You
- 18 understand that?
- 19 A. Okay.
- 20 **Q.** In fact, let me ask you, prior to this game,
- 21 was it routine or required for balls to be tested
- 22 again at halftime, or was that only for this game?
- 23 A. No, there was no routine. It was just
- 24 protocol was to test two hours and 15 minutes prior,
- 25 but it was brought to our knowledge that potentially

# Case 1:15-cv-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 63 of 172

- 1 there could have been a violation.
- 2 Q. Okay. So in all other NFL games generally,
- 3 there is no testing at halftime at all, correct?
- 4 A. No, because we typically don't have a breach
- 5 with a game ball violation.
- **Q.** Okay. And there is typically no testing
- 7 after the end of the game regarding footballs,
- 8 either, correct?
- 9 A. No, sir.
- **10 Q.** So the only testing the NFL had in place was
- 11 the testing before the game started as a routine
- 12 matter?
- 13 A. Protocol, before the game.
- **Q.** Now, at the time that was true, did you know
- 15 that the footballs were automatically going to lose
- **16** pressure if it was cold outside compared to how warm
- 17 it was inside? Was that ever something you thought
- **18** about prior to this game?
- 19 A. No, sir.
- **Q.** Okay. Now we then get to the halftime. You
- 21 were present for the halftime testing, correct?
- 22 A. Yes, sir.
- **Q.** And is it fair to say you did not tell
- 24 anybody to record the temperature in the room at the
- 25 halftime testing, correct?

# DIRECT/VINCENT/KESSLERPage 235

- 1 A. No, sir.
- **Q.** And nobody recorded the temperature in the
- 3 room at the halftime testing, correct?
- 4 A. Not to my knowledge.
- **Q.** Right. You didn't tell anybody to record the
- 6 exact time when different balls were tested at the
- 7 halftime, correct?
- 8 A. No, sir.
- **9 Q.** And to your knowledge, nobody recorded that?
- 10 A. Not to my knowledge.
- 11 Q. You didn't tell anybody to record whether or
- 12 not the balls were tested on the Colts before
- 13 reinflating the Patriots' balls or after? You
- 14 didn't instruct anybody to record that anywhere,
- 15 correct?
- 16 A. No, sir.
- 17 Q. And to your knowledge, it was not recorded
- **18** anywhere?
- 19 A. Not to my knowledge.
- **Q.** Okay. You didn't instruct anyone to indicate
- 21 whether the balls were wet or dry at the time they
- **22** were being tested, correct?
- 23 A. No, but most were wet.
- **Q.** Most of the balls were wet? Let me ask you
- 25 about that. Do you recall during the game that in

- 1 the second quarter, the Patriots had the football
- 2 time in possession for a much longer period of time
- 3 than the Colts?
- 4 A. No, sir, I don't recall that.
- **Q.** Let me represent to you, according to League
- 6 official statistics, the Patriots had the ball for
- 7 10:18 and the Colts had it only for 4:42, okay? So
- 8 let's assume that the League statistics are correct,
- **9** okay? You are a former player, correct?
- 10 A. That's what they say.
- 11 Q. Based on your years of experience as a
- 12 player, okay, is it correct that when the team has
- 13 the ball in offense, okay, the ball is out of the
- 14 bag and being used, but when you are on defense on a
- 15 rainy day, the balls are generally kept in the bag;
- 16 is that fair?
- 17 A. My understanding, yes.
- **18 Q.** Okay. So is it also fair based on your
- 19 experience that if the Patriots had their balls in
- 20 play for ten minutes and 18 seconds while the Colts
- 21 only had their balls in play for four minutes and
- 22 42 seconds in the second quarter, it was very likely
- 23 that the Patriots' balls were going to be wetter
- 24 than the Colts' balls; is that fair?
- 25 A. Possibly, yes.

- 1 Q. Okay. And it's also true that some balls may
- 2 stay in the bag the whole time for both teams and
- 3 just be dry because they never came out of the bags,
- 4 right?
- 5 A. Possible.
- **Q.** And when this testing was done, no one told
- 7 the referees, hey, see if it's a dry ball and note
- 8 that or if it's a wet ball, right? No one was asked
- 9 to record that?
- 10 A. Not to my knowledge.
- **Q.** And the reason for no one doing this is
- 12 because neither you nor anyone else was thinking
- 13 about the Ideal Gas Law or how time or temperature
- 14 or wetness my affect these readings, right?
- 15 A. Correct.
- **16 Q.** Okay. Now, let me show you the following,
- 17 which is NFLPA Exhibit 136. You will recognize
- 18 what's attached to this is a letter from Mr. Gardi
- 19 sent to Mr. Kraft on 19th. Do you see that?
- 20 A. Mm-hmm.
- **Q.** Now, did Mr. Gardi do this on his own, make
- 22 this decision, or did you participate in the
- 23 decision to start this investigation by NFL security
- 24 that is described here?
- 25 A. We spoke about this prior to game time on my

# Case 1:15-cv-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 64 of 172

- 1 way back to the hotel that we tested game balls
- 2 during halftime. And because the Patriots had
- 3 eleven game balls that were under compliance, that
- 4 this may -- we may need to do potential further
- 5 investigation.
- 6 So Dave and I and others on our staff, we
- 7 came to the conclusion that we probably need to do
- 8 some additional follow-up.
- **Q.** Now, when you say, "They had eleven balls
- 10 under compliance," what you meant is that they had
- 11 eleven balls that were below 12.5 being measured,
- 12 correct?
- 13 A. Yes.
- **Q.** But at the time, you didn't know that some of
- 15 that reduction could happen just because of cold or
- **16** wetness or other factors, right? That just wasn't
- 17 something you were aware of, correct?
- 18 A. I didn't include science, no, sir.
- **19 Q.** Okay. Let me ask you this. If you look at
- 20 this letter on the second page, it talks about the
- 21 fact that one of the game balls was inflated to
- 22 10.1 psi. Do you see that?
- 23 A. Yes, sir.
- **Q.** Now, I am going to give you another exhibit,
- 25 which is NFL 14. And you will see these are notes,

# DIRECT/VINCENT/KESSLERPage 239

- 1 I believe, that were taken when the testing was
- 2 done. And you signed them in several places. If
- 3 you will look at page 256, I think it's the first
- 4 time your signature appears; is that correct?
- 5 A. Yes, sir.
- **Q.** And you signed this as a witness of the
- 7 halftime testing: is that correct?
- 8 A. That's correct.
- **9 Q.** Okay. And if you look at the listing of the
- 10 pressures that are written down for the Patriots'
- 11 eleven balls, none of them are as low as 10.1; is
- **12** that correct?
- 13 A. That's correct.
- **14 Q.** Okay. So do you know why Mr. Gardi thought
- 15 that a ball was as low as 10.1 when none of those
- **16** measures were here?
- 17 A. No.
- **Q.** Okay. Let me ask you another one. His next
- 19 sentence says, "In contrast, each of the Colts game
- 20 ball that was inspected met the requirements set
- 21 forth above and that requirement was 12 and a half
- 22 to 13 and a half," correct?
- 23 A. Correct.
- **Q.** Well, let's look at the Colts ball
- 25 measurements. If you look at the Colts ball

- 1 measurements which you signed, I believe that is on
- 2 page 266. And that's also your signature, correct?
- 3 A. Correct.
- **Q.** And, in fact, if you look at the Colts ball
- 5 measurements on the right-hand side, the ones by
- 6 Mr. Prioleau? Do you see that?
- 7 A. Yes.
- **Q.** You will see that three out of the four
- **9** Colts' balls are below the 12.5, correct?
- 10 A. Correct.
- 11 Q. Okay. So do you know why Mr. Gardi thought
- 12 that the Colts game balls all met the requirements
- 13 when on one of the gauges, three out of the four
- **14** didn't go to 12.5?
- 15 A. Well, here it is -- he's specifying that one
- 16 of the two gauges -- that's how we looked at the
- 17 Colts -- I mean, the Patriots' ball as well, neither
- 18 of the gauges none or both gauges with the Colts'
- 19 ball, none of them were in compliance. Or at least
- 20 here with the Colts' ball, what we saw was that at
- 21 least one of the gauges, they all were in
- 22 compliance.
- **Q.** The letter doesn't say that, one gauge versus
- 24 two gauges, right? It doesn't reference it?
- 25 Mr. Gardi's letter doesn't say it was on one gauge

- 1 versus the other, correct?
- 2 A. Correct.
- **Q.** Now, at the time that you were looking at
- 4 this, you had no idea what gauge had been used
- 5 pre-game by the official to measure the balls,
- 6 Mr. Anderson? You didn't know whether it was the
- 7 logo gauge or the non-logo gauge, correct?
- 8 A. That's correct.
- **9 Q.** Is it fair to say, Mr. Vincent, that there
- **10** was a lot of confusion about what these numbers
- 11 were, that Mr. Gardi didn't even know what the
- 12 numbers were correctly at this time?
- 13 A. Not at all.
- **14 Q.** You think it was very clear?
- 15 A. I think it was clear.
- **Q.** So do you have any explanation -- is
- **17** Mr. Gardi a lawyer?
- 18 A. Yes.
- **19 Q.** Is he a careful lawyer?
- 20 A. Yes.
- **Q.** If it was so clear, do you have any
- 22 explanation as to how he could have "10.1" written
- 23 down as the figure and it was not one of the
- 24 figures?
- 25 A. I can't speak for David.

	Case 1:15-cv-05916-RMB-1CF Document	<del>28-2</del>	30 Filed 08/04/15 Page 65 of 172 DIRECT/VINCENT/KESSLER Page 244
1	Q. So it wasn't clear for Mr. Gardi at least?	1	A. Yes.
2	Would you give me that?	2	Q. Okay. You did?
3	A. Based on his letter, no.	3	A. In the Wells report?
4	<b>Q.</b> You, in the discipline letter that you wrote	4	Q. Yes.
5	in this case, let's go to that. This is NFLPA	5	A. Yes, sir.
6	Exhibit 10. This was the discipline letter that you	6	Q. So you had full access to the interview
7	sent out in this case; is that correct?	7	reports that Mr. Wells did of different people in
8	A. Yes, sir.	8	making your decision?
9	Q. Okay. And I note there has been a ruling	9	A. The report that was public, I read that
10	that I cannot ask you about delegation issues, so	10	report, yes, sir.
11	I'm just noting that if not for that ruling, I would	11	Q. Not the report, okay.
12	be asking now at this point about that.	12	A. I'm sorry; I'm sorry.
13	MR. KESSLER: But since you've ruled that I'm	13	Q. Let me be clear. Mr. Wells conducted a lot
14	not allowed to ask those questions, that's the	14	of interviews and he made his own notes or reports
15	reason why I'm not going to waste our time and ask	15	of his interviews, memoranda; did you read any of
16	questions which you said I can't ask. So I assume	16	those or did you just read the report?
17	that ruling stands?	17	A. Oh, no, sir, no; I'm sorry. I didn't have
18	MR. LEVY: The ruling stands. Let's move on.	18	access to those.
19	MR. KESSLER: That's fine. I just want to	19	Q. So you based your recommendations of
20	make sure the ruling stands. Okay.	20	discipline in this letter solely upon reading the
21	Q. In the third paragraph, it says here, look at	21	Wells report? That's what I wanted to establish.
22	the first paragraph. I am so sorry, in the third	22	A. Yes.
23	paragraph, it says, "With respect to your particular	23	Q. You didn't read any other documents?
24	involvement, the report established that there is	24	A. Didn't have any other documents to read.
25	substantial and credible evidence to conclude you	25	Q. Okay. You didn't interview any other people
	DIRECT/VINCENT/KESSLER Page 243		DIRECT/VINCENT/KESSLER Page 245
1	were at least generally aware of the actions of the	1	yourself?
2	Patriots employees involved in the deflation of the	2	A. Oh, no, sir.
	Patriots employees involved in the deflation of the footballs and that it was unlikely that their		
2		2	A. Oh, no, sir.
2	footballs and that it was unlikely that their	2	<ul><li>A. Oh, no, sir.</li><li>Q. You didn't do any review of other documents</li></ul>
2 3 4	footballs and that it was unlikely that their actions were done without your knowledge."	2 3 4	<ul><li>A. Oh, no, sir.</li><li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I</li></ul>
2 3 4 5	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?	2 3 4 5	<ul><li>A. Oh, no, sir.</li><li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li></ul>
2 3 4 5 6	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.	2 3 4 5 6	<ul> <li>A. Oh, no, sir.</li> <li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li> <li>A. Looked at some previous cases.</li> </ul>
2 3 4 5 6 7	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that	2 3 4 5 6 7	<ul> <li>A. Oh, no, sir.</li> <li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li> <li>A. Looked at some previous cases.</li> <li>Q. Previous decisions?</li> </ul>
2 3 4 5 6 7 8	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this	2 3 4 5 6 7 8	<ul> <li>A. Oh, no, sir.</li> <li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li> <li>A. Looked at some previous cases.</li> <li>Q. Previous decisions?</li> <li>A. Mm-hmm.</li> </ul>
2 3 4 5 6 7 8 9	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this matter?	2 3 4 5 6 7 8 9	<ul> <li>A. Oh, no, sir.</li> <li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li> <li>A. Looked at some previous cases.</li> <li>Q. Previous decisions?</li> <li>A. Mm-hmm.</li> <li>Q. Of discipline, correct?</li> </ul>
2 3 4 5 6 7 8 9	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this matter?  A. Yes, sir.	2 3 4 5 6 7 8 9	<ul> <li>A. Oh, no, sir.</li> <li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li> <li>A. Looked at some previous cases.</li> <li>Q. Previous decisions?</li> <li>A. Mm-hmm.</li> <li>Q. Of discipline, correct?</li> <li>A. Well, of violations, more so violations in</li> </ul>
2 3 4 5 6 7 8 9 10	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this matter?  A. Yes, sir.  MR. NASH: Objection to the form of that	2 3 4 5 6 7 8 9 10	<ul> <li>A. Oh, no, sir.</li> <li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li> <li>A. Looked at some previous cases.</li> <li>Q. Previous decisions?</li> <li>A. Mm-hmm.</li> <li>Q. Of discipline, correct?</li> <li>A. Well, of violations, more so violations in this particular area.</li> </ul>
2 3 4 5 6 7 8 9 10 11	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this matter?  A. Yes, sir.  MR. NASH: Objection to the form of that question.	2 3 4 5 6 7 8 9 10 11	<ul> <li>A. Oh, no, sir.</li> <li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li> <li>A. Looked at some previous cases.</li> <li>Q. Previous decisions?</li> <li>A. Mm-hmm.</li> <li>Q. Of discipline, correct?</li> <li>A. Well, of violations, more so violations in this particular area.</li> <li>Q. Okay. Well, that's going to get to another</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this matter?  A. Yes, sir.  MR. NASH: Objection to the form of that question.  A. This is what we derived from the Wells report	2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>A. Oh, no, sir.</li> <li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li> <li>A. Looked at some previous cases.</li> <li>Q. Previous decisions?</li> <li>A. Mm-hmm.</li> <li>Q. Of discipline, correct?</li> <li>A. Well, of violations, more so violations in this particular area.</li> <li>Q. Okay. Well, that's going to get to another question I am going to ask. Did you look at any</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this matter?  A. Yes, sir.  MR. NASH: Objection to the form of that question.  A. This is what we derived from the Wells report on information that was but we didn't impose	2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>A. Oh, no, sir.</li> <li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li> <li>A. Looked at some previous cases.</li> <li>Q. Previous decisions?</li> <li>A. Mm-hmm.</li> <li>Q. Of discipline, correct?</li> <li>A. Well, of violations, more so violations in this particular area.</li> <li>Q. Okay. Well, that's going to get to another question I am going to ask. Did you look at any previous examples of any player being disciplined</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this matter?  A. Yes, sir.  MR. NASH: Objection to the form of that question.  A. This is what we derived from the Wells report on information that was but we didn't impose discipline.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>A. Oh, no, sir.</li> <li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li> <li>A. Looked at some previous cases.</li> <li>Q. Previous decisions?</li> <li>A. Mm-hmm.</li> <li>Q. Of discipline, correct?</li> <li>A. Well, of violations, more so violations in this particular area.</li> <li>Q. Okay. Well, that's going to get to another question I am going to ask. Did you look at any previous examples of any player being disciplined for a violation like this?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this matter?  A. Yes, sir.  MR. NASH: Objection to the form of that question.  A. This is what we derived from the Wells report on information that was but we didn't impose discipline.  Q. Who imposed discipline?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>A. Oh, no, sir.</li> <li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li> <li>A. Looked at some previous cases.</li> <li>Q. Previous decisions?</li> <li>A. Mm-hmm.</li> <li>Q. Of discipline, correct?</li> <li>A. Well, of violations, more so violations in this particular area.</li> <li>Q. Okay. Well, that's going to get to another question I am going to ask. Did you look at any previous examples of any player being disciplined for a violation like this?</li> <li>A. No. I looked very hard and I was just</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this matter?  A. Yes, sir.  MR. NASH: Objection to the form of that question.  A. This is what we derived from the Wells report on information that was but we didn't impose discipline.  Q. Who imposed discipline?  A. The Commissioner. We made recommendations to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>A. Oh, no, sir.</li> <li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li> <li>A. Looked at some previous cases.</li> <li>Q. Previous decisions?</li> <li>A. Mm-hmm.</li> <li>Q. Of discipline, correct?</li> <li>A. Well, of violations, more so violations in this particular area.</li> <li>Q. Okay. Well, that's going to get to another question I am going to ask. Did you look at any previous examples of any player being disciplined for a violation like this?</li> <li>A. No. I looked very hard and I was just thinking about my time as a former player, a Union</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this matter?  A. Yes, sir.  MR. NASH: Objection to the form of that question.  A. This is what we derived from the Wells report on information that was but we didn't impose discipline.  Q. Who imposed discipline?  A. The Commissioner. We made recommendations to our unit.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>A. Oh, no, sir.</li> <li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li> <li>A. Looked at some previous cases.</li> <li>Q. Previous decisions?</li> <li>A. Mm-hmm.</li> <li>Q. Of discipline, correct?</li> <li>A. Well, of violations, more so violations in this particular area.</li> <li>Q. Okay. Well, that's going to get to another question I am going to ask. Did you look at any previous examples of any player being disciplined for a violation like this?</li> <li>A. No. I looked very hard and I was just thinking about my time as a former player, a Union representative, I just couldn't find we just</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this matter?  A. Yes, sir.  MR. NASH: Objection to the form of that question.  A. This is what we derived from the Wells report on information that was but we didn't impose discipline.  Q. Who imposed discipline?  A. The Commissioner. We made recommendations to our unit.  Q. You made your recommendation based on this	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>A. Oh, no, sir.</li> <li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li> <li>A. Looked at some previous cases.</li> <li>Q. Previous decisions?</li> <li>A. Mm-hmm.</li> <li>Q. Of discipline, correct?</li> <li>A. Well, of violations, more so violations in this particular area.</li> <li>Q. Okay. Well, that's going to get to another question I am going to ask. Did you look at any previous examples of any player being disciplined for a violation like this?</li> <li>A. No. I looked very hard and I was just thinking about my time as a former player, a Union representative, I just couldn't find we just didn't see actions, this kind of action from a</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this matter?  A. Yes, sir.  MR. NASH: Objection to the form of that question.  A. This is what we derived from the Wells report on information that was but we didn't impose discipline.  Q. Who imposed discipline?  A. The Commissioner. We made recommendations to our unit.  Q. You made your recommendation based on this particular finding in the Wells report that's	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Oh, no, sir.  Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.  A. Looked at some previous cases. Q. Previous decisions? A. Mm-hmm. Q. Of discipline, correct? A. Well, of violations, more so violations in this particular area. Q. Okay. Well, that's going to get to another question I am going to ask. Did you look at any previous examples of any player being disciplined for a violation like this?  A. No. I looked very hard and I was just thinking about my time as a former player, a Union representative, I just couldn't find we just didn't see actions, this kind of action from a player. You just, we didn't find this kind of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this matter?  A. Yes, sir.  MR. NASH: Objection to the form of that question.  A. This is what we derived from the Wells report on information that was but we didn't impose discipline.  Q. Who imposed discipline?  A. The Commissioner. We made recommendations to our unit.  Q. You made your recommendation based on this particular finding in the Wells report that's identified here?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Oh, no, sir.  Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.  A. Looked at some previous cases. Q. Previous decisions? A. Mm-hmm. Q. Of discipline, correct? A. Well, of violations, more so violations in this particular area. Q. Okay. Well, that's going to get to another question I am going to ask. Did you look at any previous examples of any player being disciplined for a violation like this?  A. No. I looked very hard and I was just thinking about my time as a former player, a Union representative, I just couldn't find we just didn't see actions, this kind of action from a player. You just, we didn't find this kind of action or behavior of a player.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this matter?  A. Yes, sir.  MR. NASH: Objection to the form of that question.  A. This is what we derived from the Wells report on information that was but we didn't impose discipline.  Q. Who imposed discipline?  A. The Commissioner. We made recommendations to our unit.  Q. You made your recommendation based on this particular finding in the Wells report that's identified here?  A. No. This is one factor that was included.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	A. Oh, no, sir.  Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.  A. Looked at some previous cases. Q. Previous decisions? A. Mm-hmm. Q. Of discipline, correct? A. Well, of violations, more so violations in this particular area. Q. Okay. Well, that's going to get to another question I am going to ask. Did you look at any previous examples of any player being disciplined for a violation like this?  A. No. I looked very hard and I was just thinking about my time as a former player, a Union representative, I just couldn't find we just didn't see actions, this kind of action from a player. You just, we didn't find this kind of action or behavior of a player.  Q. Let's look into that. Were you aware during
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	footballs and that it was unlikely that their actions were done without your knowledge."  Do you see that?  A. Yes, sir.  Q. Is that the finding of the Wells report that you relied on in order to impose discipline in this matter?  A. Yes, sir.  MR. NASH: Objection to the form of that question.  A. This is what we derived from the Wells report on information that was but we didn't impose discipline.  Q. Who imposed discipline?  A. The Commissioner. We made recommendations to our unit.  Q. You made your recommendation based on this particular finding in the Wells report that's identified here?  A. No. This is one factor that was included.  Q. Okay. Did you personally read any of the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	<ul> <li>A. Oh, no, sir.</li> <li>Q. You didn't do any review of other documents other than reading the Wells report? That's what I want to be sure of.</li> <li>A. Looked at some previous cases.</li> <li>Q. Previous decisions?</li> <li>A. Mm-hmm.</li> <li>Q. Of discipline, correct?</li> <li>A. Well, of violations, more so violations in this particular area.</li> <li>Q. Okay. Well, that's going to get to another question I am going to ask. Did you look at any previous examples of any player being disciplined for a violation like this?</li> <li>A. No. I looked very hard and I was just thinking about my time as a former player, a Union representative, I just couldn't find we just didn't see actions, this kind of action from a player. You just, we didn't find this kind of action or behavior of a player.</li> <li>Q. Let's look into that. Were you aware during the 2014 season that there was an incident with the Minnesota team having warm footballs?</li> <li>A. Yes, sir.</li> </ul>

### Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 66 of 172 **Q.** Okay. Would you agree with me that the 1 **Q.** Let me ask you next about the following. Are 2 quarterback of Minnesota would have been generally you aware -- let's take a look at NFLPA Exhibit 177. aware that those footballs would be warm to his 3 You will see this is a report quoting Aaron Rodgers touch? that took place during the November 30th game 4 A. I'm not aware of that just based off of the 5 between the Packers and the Patriots.

- reading of the file. No, this was just Q. You were the executive vice president MR. NASH: Objection. Let him finish the
- 9 answer, please.

1

2

3

4

5

- **10 Q.** Finish your answer.
- 11 A. This is a game ball employee that took it
- 12 upon himself to warm a football. So you had a game
- 13 ball employee from the Carolina Panthers that was on
- 14 the Minnesota Vikings sideline that actually took
- 15 these things in his own action and thought that was
- 16 the proper thing to do.
- **Q.** Were those balls put into the game, the balls
- 18 he warmed?
- 19 A. It was just one.
- **Q.** Was that one put into the game?
- 21 A. No, sir.
- **Q.** How do you know that?
- 23 A. Because the report would have said it.
- **Q.** Well, do you know that personally or just
- 25 assuming that?

# DIRECT/VINCENT/KESSLERPage 247

- 1 A. I'm assuming based off the evidence that was
- 2 in the report.
- **Q.** Did you start any investigation of any player
- 4 regarding that incident?
- 5 A. There was no need because it was addressed
- 6 immediately. It was a natural break in the game and
- 7 our office called the sidelines to ask the question
- 8 and to make sure that there wasn't any other
- 9 misconduct.
- **10 Q.** What report are you referring to, by the way?
- 11 A. Just the actual case itself, looking at the
- 12 paperwork.
- **Q.** Was there paperwork involved in that?
- 14 A. Well, it was a follow-up from the office,
- 15 yes.
- MR. KESSLER: We had asked for that, and
- 17 there has been nothing produced, I don't believe, on
- 18 that. If I'm wrong, Dan, you can advise me.
- **19** MR. NASH: I think you have been produced
- 20 with everything.
- 21 MR. KESSLER: I just represent I don't
- 22 believe that has been produced to us, any kind of
- 23 written report. We know about the public report,
- 24 but we haven't seen any written report. So if there
- 25 is one, I would ask that it be produced.

- 6 And you will see that Mr. Rodgers was quoted
- 7 as saying, "I like to push the limit to how much air
- **8** we can put in the football, even go over what they
- 9 allow you to do and see if the officials take air
- 10 out of it."
- 11 Do you see that?
- 12 A. Yes.
- **Q.** Did you or anyone in your office conduct any
- 14 investigation of Mr. Rodgers for making that
- 15 statement?
- 16 A. No, sir.
- 17 Q. Would you agree with me that if Mr. Rodgers
- 18 was pushing the limit of how much air could be in a
- 19 football, that that would be him at least being
- 20 generally aware of activities to try to violate the
- 21 NFL rules regarding pressure for footballs?
- 22 A. The way I'm reading, this is a post-game
- 23 comment and there is no need for us to react or
- 24 overreact.
- **Q.** So this was not important enough for you to

- 1 react to Mr. Rodgers saying he liked to push the
- 2 limit and see if officials caught it; that was not a
- 3 serious thing for you to react?
- 4 A. In a post-game interview. Because if the
- 5 testing of the games (sic) pre-game and all balls
- 6 were in regulation, there is no need for us to react
- 7 for post-game comment.
- **Q.** So in your view, Mr. Rodgers not even being
- 9 investigated and Mr. Brady being suspended for four
- 10 games for allegedly being generally aware of someone
- 11 else's activities, you think that's a consistent
- **12** treatment, in your mind?
- 13 A. This is a post-game comment.
- 14 Q. Okay. Let me ask you about this one. Take a
- **15** look at NFL Exhibit 1597, Exhibit 73.
- **16** MR. KESSLER: If we can give that to him,
- 17 please.
- **Q.** Mr. Vincent, is this one of the incidents
- 19 that you looked at to see how things were treated in
- 20 the past regarding claims of tampering with
- 21 footballs?
- 22 A. This was reviewed, yes, sir.
- **Q.** Okay. And so, you can see here that the
- 24 League, Mr. Hill, was he the Vice President of
- 25 Football Operations before you?

- 1 A. Yes.
- **Q.** And you will see that he suspends this
- 3 employee of the Jets, Mr. Robinson, for trying to
- 4 use unapproved equipment to prep a kicking ball
- 5 prior to a game. Do you see that?
- 6 A. Yes, sir.
- 7 Q. Now, do you know why there was no
- 8 investigation made or action taken against a kicker
- **9** under the theory that he was generally aware that
- 10 this attendant would have been preparing the balls
- **11** for him in this manner?
- 12 A. No, sir.
- **Q.** Now, the policy that you cite in your letter,
- 14 in your discipline letter regarding Mr. Brady --
- 15 well, let me ask you this.
- Where do you find the policy that says that
- 17 footballs can't be altered with respect to pressure?
- **18** Is that going to be in the competitive integrity
- 19 policy that Mr. Wells cited in his report?
- 20 A. Game-Day Operations Manual.
- **Q.** In the manual? Okay.
- 22 Is it correct, to your knowledge, that the
- 23 manual is given to clubs and GMs and owners, et
- 24 cetera, but the manual is not given out to players;
- 25 is that correct, to your knowledge?

# CROSS/VINCENT/NASH Page 251

- 1 A. That's correct, to my knowledge.
- 2 Q. In fact, when you were a player, you were
- 3 never given that manual, right?
- 4 A. No.
- **5** MR. KESSLER: I don't have any further
- 6 questions. Thank you very much.
- 7 CROSS-EXAMINATION BY
- 8 MR. NASH:
- **9 Q.** Just a few questions, Mr. Vincent.
- 10 You were asked about your presence during the
- 11 halftime at the AFC Championship Game?
- 12 A. Yes.
- **Q.** How would you describe the process that took
- 14 place; was it an orderly process? How would you
- **15** generally describe what happened in terms of the
- **16** measurement of the football?
- 17 A. Very orderly. Actually, I was one of the
- 18 last to enter into the locker room. Upon my
- 19 entrance into the rear room where the officials
- 20 were, Al Riveron was actually directing traffic in a
- 21 very calm manner.
- **Q.** From your observations, who did the
- 23 measurements?
- 24 A. I think it was Clete and it was two
- 25 officials, and then we had the one League security

- 1 rep.
- 2 COMMISSIONER GOODELL: I'm sorry; two game
- 3 officials?
- **4** THE WITNESS: Two game officials, yes, sir.
- **Q.** Are the two game officials the people who did
- 6 the measurements?
- 7 A. Yes, sir.
- **Q.** And to your observation, were they careful in
- 9 doing them?
- 10 A. Yes, sir.
- 11 Q. If I could ask you to look at NFLPA
- 12 Exhibit 136, you were asked some questions about the
- 13 letter to Mr. Kraft. At the time that this letter
- 14 was written, had any final determinations been made
- 15 about whether the Patriots or anybody associated
- 16 with the Patriots had actually violated the rules?
- 17 A. No, sir.
- **Q.** What happened following the issuance of this
- **19** letter?
- 20 A. Actually, once Dave sent the letter to the
- 21 club, I think there was maybe a few days later,
- 22 Mr. Wells and Jeff had came in too. We felt like an
- 23 independent investigation should take place.
- **Q.** Now, Mr. Kessler asked you about whether you
- 25 had been familiar with the Ideal Gas Law or other

# CROSS/VINCENT/NASH Page 253

- 1 factors that could account for the decrease in the
- 2 inflation in the Patriots' balls. Do you remember
- 3 that?
- 4 A. Yes.
- **Q.** Was the purpose of the investigation to look
- 6 into things like that?
- 7 A. Yes, sir.
- 8 Q. Now, you were asked a few questions about
- 9 other incidents. The first one you were asked about
- 10 was the Vikings. Do you recall that?
- 11 A. Yes, sir.
- **Q.** If I could turn your attention to, I think
- 13 it's Exhibit 174, the NFLPA 174. Do you remember
- **14** seeing this article at the time?
- 15 A. No, sir. This is the first I'm seeing it.
- **16 Q.** In looking at it, does this refresh your
- 17 recollection at all about the events of the Vikings
- **18** game?
- 19 A. Yes.
- **Q.** Would you say that this accurately describes
- 21 your recollection of what happened at the Vikings
- **22** game?
- 23 A. Yes.
- Q. Did you have any information at that time ordo you know of anyone at the NFL who had information
- 67 of 172 sheets Page 250 to 253 of 457 06/25/2015 03:43:11 PM

### Case 1:15-cv-05916-RMB-JCF Document 48-230 Filed 08/04/15 Page 68 of 172 Page 254 1 of any player being involved with the ball boy 1 article. 2 **Q.** Why did you say it characterized it correctly 2 warming the football for the Vikings? 3 A. No, sir. 3 when your counsel just asked you that question? 4 **Q.** You were asked about Aaron Rodgers. It's 4 A. Based off what the article represents. NFLPA Exhibit 177. Do you have that? **Q.** The article represents that both teams were 5 5 6 A. Yes, sir. warned, correct? That's what the article says? 6 7 **Q.** You were asked about a quote, and I note in 7 A. Yes, sir. 8 the quote it says something about to see if the 8 **Q.** Were both teams warned? 9 officials take the air out of it. And you were 9 A. Based off the article, yes. 10 asked whether you did an investigation. 10 **Q.** Okay. So if both teams were warned, that 11 Did you have any information that either 11 would mean that both teams were involved in the 12 Mr. Rodgers or anyone from the Packers had actually 12 activity, right, not just one? tampered with a football after the officials A. That's correct. 13 13 14 Q. Okay. And so both teams, it would involve 14 measured it? 15 A. No, sir. 15 more than one football, at least one football for **Q.** Did you have any information or any evidence each team, correct? 16 16 17 that either Mr. Rodgers or anyone associated with 17 A. That's not correct. 18 the Packers actually used the football in that game 18 **Q.** Well, were both teams warming the same 19 or any other game in which the inflation was not 19 football? 20 properly done on the footballs after the officials 20 A. Well, it was because you had National take 21 had measured it? 21 place, you want to inform both teams that this is 22 A. No, sir. 22 not prohibited. 23 **Q.** Or at any time, did you have information that 23 COMMISSIONER GOODELL: Are you saying the packers or Mr. Rodgers used the football that 24 "warmed" or "warned"? 24 25 25 MR. KESSLER: "Warm." was not properly inflated? REDIRECT/VINCENT/KESSLER Page 255 REDIRECT/VINCENT/KESSLERPage 257 A. Not at all. COMMISSIONER GOODELL: "Warm"? 1 1 Q. If you had such knowledge and such evidence, MR. KESSLER: "Warm," W-A-R-M is what the 2 2 3 would you have conducted an investigation? 3 article said. 4

- A. What we would have done is our normal
- 5 protocol. Before games, we would have tested the 6 ball.
- 7 MR. NASH: Thank you.
- 8 MR. KESSLER: Just a few more questions.
- 9 REDIRECT EXAMINATION BY
- 10 MR. KESSLER:
- 11 Q. You just testified to Mr. Nash that NFLPA
- 12 Exhibit 174 accurately described the incident with
- 13 Minnesota. And so based on that, do you now recall
- 14 that, in fact, it was both teams who were involved
- in warming footballs, plural, as stated in this 15
- article? 16
- 17 A. It was just, it was my knowledge that it was
- 18 just the one team.
- 19 Q. Okay. So now, so even though you just
- 20 testified under oath that the article accurately
- characterized it, it is now your new testimony that
- the article is mischaracterizing that? 22
- 23 MR. NASH: Objection; mischaracterizing what
- 24 he said.
- A. No, this is the first I've actually seen the

- 4 **Q.** This was a game that was played in minus
- seven degrees; is that correct? That is what the 5
- 6 article says?
- A. Yes. 7
- 8 **Q.** So it was a very, very cold game. And what
- was happening, according to the article, is sideline
- 10 attendants were using heaters to warm the footballs,
- 11 right?
- 12 A. Correct.
- 13 Q. And would you agree with me it's a frozen
- 14 game, okay. Someone's using sideline heaters. If a
- 15 quarterback felt that ball, he would be generally
- aware that the ball had been warmed in this frozen 16
- game? There's no way to not be aware of that? You 17
- are a football player. You are aware of that? 18
- 19 A. I'm not a quarterback.
- 20 **Q.** Have you handled a football with the National
- Football League? 21
- A. Yes. 22
- 23 Q. Okay. Do you think in a frozen game if
- 24 someone put in a heated, you would notice, oh, this
- 25 feels warmer than I thought it would?

	Case 1:15-cv-05916-RMB-JCF Document	<del>28-2</del>	930 Filad 08/04/15 Paga 60 of 172
	REDIRECT/VINCENT/RESSLERPage 258	40-2	RECROSS/VINGEN I7NASH Page 260
1	A. With gloves on, I'm not sure.	1	who actually took it upon himself to warm a
2	<b>Q.</b> You are not sure about that?	2	football.
3	In any event, nothing was done to even	3	<b>Q.</b> And in terms of both teams, all this article
4	investigate the quarterbacks in this matter,	4	refers to that both teams were warned?
5	correct, by you?	5	A. That's correct.
6	A. Here, it says here in the article that he	6	Q. And it also says in the article that, "The
7	warned both teams.	7	sideline attendants involved in that likely meant
8	<b>Q.</b> Right. But there was no investigation made	8	well."
9	of whether the quarterbacks knew about it or whether	9	Was that your understanding of that
10	the quarterbacks asked the attendants to do	10	situation?
11	anything? There was no investigation of that at	11	A. Yes.
12	all?	12	Q. And again, did this or any other report that
13	A. That's correct.	13	you received about the Vikings incident give you any
14	Q. And then finally, going back to NFL	14	indication that any player was in any way involved?
15	Exhibit 14, which are the notes you signed, and I	15	A. No player or anyone else was involved. No
16	want to look back on page 256. It states here, if	16	one else was involved.
17	you look at the this is the two different tests.	17	MR. NASH: Thank you.
18	And I'm looking at the one where it says,	18	MR. KESSLER: Nothing further.
19	"Tests by Darrel" is it "Prioleau" ["pray-loo"	19	MR. LEVY: Thank you.
20	phonetically]?	20	COMMISSIONER GOODELL: Thank you.
21	A. That's correct.	21	MR. KESSLER: You want to keep going or
22	Q. It says here, "Belonging to JJ."	22	should we take a brief break? Mr. Wells, the
23	Do you see that right at the top? Right next	23	witness, would like a brief break.
24	to the 11.8, it says, "Belonging to JJ."	24	(Recess taken 3:54 p.m. to 4:03 p.m.)
25	A. Mm-hmm.  RECROSS/VINCENT/NASH Page 259	25	MR. KESSLER: Our next witness will be
	RECROSS/VINCENT/NASH Page 259		DIRECT/WELLS/KESSLER Page 261
4	Now you signed those notes right?	4	Mr. Tod Wolls
1	Q. Now, you signed these notes, right?	1	Mr. Ted Wells.
2	A. Yes, sir.	2	Please swear in the witness.
2	<ul><li>A. Yes, sir.</li><li>Q. This page you signed, right?</li></ul>		Please swear in the witness.  THEODORE WELLS, called as a witness,
2 3 4	<ul><li>A. Yes, sir.</li><li>Q. This page you signed, right?</li><li>A. Yes.</li></ul>	2 3 4	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of
2 3 4 5	<ul><li>A. Yes, sir.</li><li>Q. This page you signed, right?</li><li>A. Yes.</li><li>Q. Do you know what "belonging to JJ" refers to?</li></ul>	2 3 4 5	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as
2 3 4 5 6	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> </ul>	2 3 4 5 6	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:
2 3 4 5	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that</li> </ul>	2 3 4 5	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY
2 3 4 5 6 7	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge</li> </ul>	2 3 4 5 6 7	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:
2 3 4 5 6 7 8	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge that belonged to Mr. Jastremski?</li> </ul>	2 3 4 5 6 7 8	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:  Q. Good morning, Mr. Wells. Would you state
2 3 4 5 6 7 8 9	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge that belonged to Mr. Jastremski?</li> <li>A. Not to my knowledge.</li> </ul>	2 3 4 5 6 7 8 9	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:  Q. Good morning, Mr. Wells. Would you state your full name for the record, please.
2 3 4 5 6 7 8 9	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge that belonged to Mr. Jastremski?</li> <li>A. Not to my knowledge.</li> </ul>	2 3 4 5 6 7 8 9	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:  Q. Good morning, Mr. Wells. Would you state your full name for the record, please.
2 3 4 5 6 7 8 9 10 11	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge that belonged to Mr. Jastremski?</li> <li>A. Not to my knowledge.</li> <li>Q. So you don't know what that refers to?</li> </ul>	2 3 4 5 6 7 8 9 10	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:  Q. Good morning, Mr. Wells. Would you state your full name for the record, please.  A. Theodore V. Wells, Jr.
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge that belonged to Mr. Jastremski?</li> <li>A. Not to my knowledge.</li> <li>Q. So you don't know what that refers to?</li> <li>A. No, sir.</li> </ul>	2 3 4 5 6 7 8 9 10 11	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:  Q. Good morning, Mr. Wells. Would you state your full name for the record, please.  A. Theodore V. Wells, Jr.  Q. Okay. And what is your current occupation?
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge that belonged to Mr. Jastremski?</li> <li>A. Not to my knowledge.</li> <li>Q. So you don't know what that refers to?</li> <li>A. No, sir.</li> <li>MR. KESSLER: I have no further questions.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:  Q. Good morning, Mr. Wells. Would you state your full name for the record, please.  A. Theodore V. Wells, Jr.  Q. Okay. And what is your current occupation?  A. I am a partner at the law firm of Paul,
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge that belonged to Mr. Jastremski?</li> <li>A. Not to my knowledge.</li> <li>Q. So you don't know what that refers to?</li> <li>A. No, sir.</li> <li>MR. KESSLER: I have no further questions.</li> <li>MR. NASH: Just very briefly.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:  Q. Good morning, Mr. Wells. Would you state your full name for the record, please.  A. Theodore V. Wells, Jr.  Q. Okay. And what is your current occupation?  A. I am a partner at the law firm of Paul, Weiss.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge that belonged to Mr. Jastremski?</li> <li>A. Not to my knowledge.</li> <li>Q. So you don't know what that refers to?</li> <li>A. No, sir.  MR. KESSLER: I have no further questions.  MR. NASH: Just very briefly.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:  Q. Good morning, Mr. Wells. Would you state your full name for the record, please.  A. Theodore V. Wells, Jr.  Q. Okay. And what is your current occupation?  A. I am a partner at the law firm of Paul, Weiss.  Q. And Mr. Wells, were you hired to be the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge that belonged to Mr. Jastremski?</li> <li>A. Not to my knowledge.</li> <li>Q. So you don't know what that refers to?</li> <li>A. No, sir.  MR. KESSLER: I have no further questions.  MR. NASH: Just very briefly.</li> <li>RECROSS-EXAMINATION BY</li> <li>MR. NASH:</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:  Q. Good morning, Mr. Wells. Would you state your full name for the record, please.  A. Theodore V. Wells, Jr.  Q. Okay. And what is your current occupation?  A. I am a partner at the law firm of Paul, Weiss.  Q. And Mr. Wells, were you hired to be the co-lead investigator in connection with the issues
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge that belonged to Mr. Jastremski?</li> <li>A. Not to my knowledge.</li> <li>Q. So you don't know what that refers to?</li> <li>A. No, sir.  MR. KESSLER: I have no further questions.  MR. NASH: Just very briefly.</li> <li>RECROSS-EXAMINATION BY</li> <li>MR. NASH:</li> <li>Q. Just the Vikings article, I want to follow up</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:  Q. Good morning, Mr. Wells. Would you state your full name for the record, please.  A. Theodore V. Wells, Jr.  Q. Okay. And what is your current occupation?  A. I am a partner at the law firm of Paul, Weiss.  Q. And Mr. Wells, were you hired to be the co-lead investigator in connection with the issues surrounding the AFC Championship Game of last year?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge that belonged to Mr. Jastremski?</li> <li>A. Not to my knowledge.</li> <li>Q. So you don't know what that refers to?</li> <li>A. No, sir.  MR. KESSLER: I have no further questions.  MR. NASH: Just very briefly.</li> <li>RECROSS-EXAMINATION BY</li> <li>MR. NASH:</li> <li>Q. Just the Vikings article, I want to follow up on the Commissioner's question. I'm not sure</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:  Q. Good morning, Mr. Wells. Would you state your full name for the record, please.  A. Theodore V. Wells, Jr.  Q. Okay. And what is your current occupation?  A. I am a partner at the law firm of Paul, Weiss.  Q. And Mr. Wells, were you hired to be the co-lead investigator in connection with the issues surrounding the AFC Championship Game of last year?  A. Yes, but I want to clarify your description
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge that belonged to Mr. Jastremski?</li> <li>A. Not to my knowledge.</li> <li>Q. So you don't know what that refers to?</li> <li>A. No, sir.  MR. KESSLER: I have no further questions.  MR. NASH: Just very briefly.</li> <li>RECROSS-EXAMINATION BY</li> <li>MR. NASH:</li> <li>Q. Just the Vikings article, I want to follow up on the Commissioner's question. I'm not sure</li> <li>Mr. Kessler accurately described the article. I</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:  Q. Good morning, Mr. Wells. Would you state your full name for the record, please.  A. Theodore V. Wells, Jr.  Q. Okay. And what is your current occupation?  A. I am a partner at the law firm of Paul, Weiss.  Q. And Mr. Wells, were you hired to be the co-lead investigator in connection with the issues surrounding the AFC Championship Game of last year?  A. Yes, but I want to clarify your description with respect to "co-lead investigator." I was asked
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge that belonged to Mr. Jastremski?</li> <li>A. Not to my knowledge.</li> <li>Q. So you don't know what that refers to?</li> <li>A. No, sir.  MR. KESSLER: I have no further questions.  MR. NASH: Just very briefly.</li> <li>RECROSS-EXAMINATION BY</li> <li>MR. NASH:</li> <li>Q. Just the Vikings article, I want to follow up on the Commissioner's question. I'm not sure</li> <li>Mr. Kessler accurately described the article. I thought there was a suggestion that the article said</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:  Q. Good morning, Mr. Wells. Would you state your full name for the record, please.  A. Theodore V. Wells, Jr.  Q. Okay. And what is your current occupation?  A. I am a partner at the law firm of Paul, Weiss.  Q. And Mr. Wells, were you hired to be the co-lead investigator in connection with the issues surrounding the AFC Championship Game of last year?  A. Yes, but I want to clarify your description with respect to "co-lead investigator." I was asked by Jeff Pash to become the independent investigator
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge that belonged to Mr. Jastremski?</li> <li>A. Not to my knowledge.</li> <li>Q. So you don't know what that refers to?</li> <li>A. No, sir.  MR. KESSLER: I have no further questions.  MR. NASH: Just very briefly.</li> <li>RECROSS-EXAMINATION BY</li> <li>MR. NASH:</li> <li>Q. Just the Vikings article, I want to follow up on the Commissioner's question. I'm not sure</li> <li>Mr. Kessler accurately described the article. I thought there was a suggestion that the article said that both teams actually warmed the football.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:  Q. Good morning, Mr. Wells. Would you state your full name for the record, please.  A. Theodore V. Wells, Jr.  Q. Okay. And what is your current occupation?  A. I am a partner at the law firm of Paul, Weiss.  Q. And Mr. Wells, were you hired to be the co-lead investigator in connection with the issues surrounding the AFC Championship Game of last year?  A. Yes, but I want to clarify your description with respect to "co-lead investigator." I was asked by Jeff Pash to become the independent investigator for the NFL with respect to what has become known as
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>A. Yes, sir.</li> <li>Q. This page you signed, right?</li> <li>A. Yes.</li> <li>Q. Do you know what "belonging to JJ" refers to?</li> <li>A. No, sir.</li> <li>Q. Do you know if that refers to the fact that the gauge used by Mr. Prioleau was, in fact, a gauge that belonged to Mr. Jastremski?</li> <li>A. Not to my knowledge.</li> <li>Q. So you don't know what that refers to?</li> <li>A. No, sir.  MR. KESSLER: I have no further questions.  MR. NASH: Just very briefly.</li> <li>RECROSS-EXAMINATION BY</li> <li>MR. NASH:</li> <li>Q. Just the Vikings article, I want to follow up on the Commissioner's question. I'm not sure</li> <li>Mr. Kessler accurately described the article. I thought there was a suggestion that the article said that both teams actually warmed the football.  What was your recollection of the incident?</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Please swear in the witness.  THEODORE WELLS, called as a witness, having been first duly sworn by a Notary Public of the State of New York, was examined and testified as follows:  DIRECT EXAMINATION BY  MR. KESSLER:  Q. Good morning, Mr. Wells. Would you state your full name for the record, please.  A. Theodore V. Wells, Jr.  Q. Okay. And what is your current occupation?  A. I am a partner at the law firm of Paul,  Weiss.  Q. And Mr. Wells, were you hired to be the co-lead investigator in connection with the issues surrounding the AFC Championship Game of last year?  A. Yes, but I want to clarify your description with respect to "co-lead investigator." I was asked by Jeff Pash to become the independent investigator for the NFL with respect to what has become known as "Deflategate." That request was made on

# Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/0/15 Page 70 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/0/15 Page 70 of 172 Case 1:15-cy-05916-RME 1:15-cy

- 1 said -- and I don't have it in front of me; I
- 2 apologize -- but it said in substance that I and
- 3 Jeff Pash would be overseeing the investigation and
- 4 I would be adding independence.
- 5 I immediately telephoned Mr. Pash because I
- 6 had not been told that we were going to be doing it
- 7 jointly. And Mr. Pash explained to me that I would
- 8 be the independent investigator, that he would be
- 9 there to help facilitate on procedural-type issues
- 10 and dealing with the Patriots, but that we were
- 11 going to run it the same we had run the Dolphins
- 12 investigation, which was I would be the independent
- 13 investigator with my team.
- 14 We would make -- "we" meaning Paul, Weiss,
- 15 would make all of the decisions with respect to the
- 16 investigation and that it would be my report and
- 17 despite what had been said in that press release
- 18 about his being my, quote, co- -- I don't even know
- 19 if it uses those words, Jeff running with me, that
- in it uses those words, sen running with me, that
- 20 we were going to run it like the Dolphins
- 21 investigation.
- **Q.** Okay. Let me ask you, you might as well get
- 23 out a copy of your report.
- 24 A. Sure, I have a copy in front of me.
- **Q.** Look at page 1 of your report, the Executive

# DIRECT/WELLS/KESSLERPage 263

- 1 Summary.
- 2 A. Sure.
- **Q.** And is it fair to say, Mr. Wells, that you
- 4 stand by every word written in your report?
- 5 A. I hope so, yes, yeah.
- **Q.** You try to have it written carefully and
- **7** correctly, correct?
- 8 A. Yes, sir.
- **9 Q.** So on the very first page 1 in the Executive
- 10 Summary in the second paragraph, it says, "On
- 11 January 23, 2015, the NFL publically announced that
- 12 it had retained Theodore V. Wells, Jr. in the law
- 13 firm Paul, Weiss, Rifkind, Wharton & Garrison
- 14 ("Paul, Weiss") to conduct an investigation together
- **15** with NFL Executive Vice President Jeff Pash into the
- **16** footballs used by the Patriots used during the AFC
- 17 Championship Game."
- **18** And then it says, "The investigation was
- 19 conducted pursuant."
- You see that?
- 21 A. Yes, sir.
- **Q.** When you wrote this down, this was now when
- 23 your report was issued, which was May 6, 2015,
- 24 correct?
- 25 A. Yes.

- 1 Q. This is long after the NFL press release and
- 2 after you had your conversation with Mr. Pash as to
- 3 how the investigation was going to be conducted,
- 4 correct?
- 5 A. Yes, sir.
- **Q.** But you still thought it was appropriate,
- 7 correct and accurate to, on the first page of your
- 8 Executive Summary, describe the investigation as
- **9** being one in which you were conducting an
- 10 investigation together with Mr. Pash?
- 11 A. No. You totally misread the sentence. The
- 12 sentence says that, "On January 23rd, the NFL
- 13 announced."
- 14 Now, that's the public statement. That's
- 15 what that sentence is quoting. If you go down to
- 16 the last sentence, "It was prepared entirely by the
- 17 Paul, Weiss investigative team and presents the
- 18 independent opinions of Mr. Wells and his
- 19 colleagues."
- 20 So there, I'm clarifying, despite what they
- 21 announced in a piece of paper issued to the press on
- 22 January 23rd, I'm saying to any reader of this
- 23 report that this report was done by Paul, Weiss and
- 24 it is the independent opinion of Mr. Wells and his
- 25 colleagues.

# DIRECT/WELLS/KESSLERPage 265

- So I cut Mr. Pash out, though I have
- 2 announced -- I'm sorry -- I've set forth in that
- 3 first sentence what the NFL put out there.
- **Q.** So when you prepared this report, did
- **5** Mr. Pash see any drafts of this report before it was
- 6 final?

- 7 A. I don't know whether that's privileged or
- 8 what. You tell me.
- **9** MR. NASH: I would object to the extent that
- 10 your answers would have to reveal any privileged
- 11 communications. But otherwise, I think you can
- **12** answer subject to that objection.
- 13 A. Okay. I don't want to waive anything, but
- 14 the answer is yes.
- **15 Q.** He did receive drafts of the report?
- 16 A. Yes, sir.
- 17 Q. Okay. Did he give you comments on the report
- 18 before it was issued after seeing it either verbally
- **19** or in writing?
- 20 MR. NASH: I think the best way -- I don't
- 21 want to get into --
- THE WITNESS: You guys tell me what to do.
- 23 MR. NASH: I think there's been a ruling
- 24 about Mr. Wells's testimony. So to the extent that
- 25 they are addressing Mr. Pash's role, I think the

### Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 71 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 71 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 71 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 71 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 71 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 71 of 172 Case 1:15-cy-05916-RMB-1CF Page 71 Case 1:15-cy-05916-1 ruling had to do with whether Mr. Pash was 1 report before it was -- before it was issued? 2 2 substantially involved in the investigation or in A. I'm going to follow whatever -- it's not my 3 the report itself. 3 privilege, sir. I just have to -- need to follow 4 4 his advice. If they want to ask questions to that, they 5 certainly can do so. But I would object on 5 MR. NASH: Yeah, I would object to the extent 6 that I think Mr. Wells has already explained the privileged grounds to questions about communications 6 7 between Mr. Wells and Mr. Pash, the General Counsel 7 role of Mr. Pash, the role of the Paul, Weiss firm 8 of the NFL. 8 and who the report was prepared by and who the 9 9 MR. KESSLER: Let me now state the following, conclusions -- who prepared the conclusions as well. 10 if I can. Mr. Wells just testified he was 10 To the extent that he wants to get further 11 independent and the NFL was not his client. 11 into communications, I think he's now trying to get 12 Therefore, Mr. Pash's communications with him 12 into attorney-client privilege. 13 could not be privileged under any possible 13 MR. LEVY: Without prejudice to the assertion 14 application of the privilege, unless Mr. Wells wants 14 of any privilege down the road, Mr. Wells can answer 15 15 to change his testimony and state that the NFL was the question that was presented. The question was, 16 his client in this matter, which would mean he is 16 did Mr. Pash give you any comments? 17 not independent. 17 Q. Yes. Did he provide written or oral 18 MR. NASH: I object. You are 18 comments? 19 mischaracterizing what he said. 19 A. Yes. 20 MR. KESSLER: Okay. 20 **Q.** Okay. Were they written? 21 Q. Was the NFL your client in this matter? Did 21 Not to my knowledge, but the truthful answer 22 22 you act as their lawyer when you did this is he didn't provide any to me, okay. 23 investigation? 23 **Q.** Did he provide it to another member of your A. To my understanding, I was being hired by the 24 24 team? 25 25 A. I believe so. NFL, and that's who pays my bills, to do what I have DIRECT/WELLS/KESSLERPage 267 DIRECT/WELLS/KESSLERPage 269 Q. Okay. And you don't know whether they were 1 described as an independent investigation with 1 in writing or orally? 2 respect to Deflategate. And what I mean by "an 2 3 independent investigation," is that the opinions 3 A. I do not. 4 represented in this report and conclusions were 4 Q. Do you know what the contents were of his those of myself and the Paul, Weiss team. comments? 5 5 6 Jeff Pash, and I don't think this waives any 6 A. I do not, except to say they couldn't have 7 privilege, Jeff Pash did not attend any witness 7 been that big a deal because I don't think I heard 8 interviews. I did not deliberate or involve him on 8 about them. But, you know, Mr. Pash is a very good 9 my deliberations with respect to my assessment of 9 Harvard-trained lawyer. If you give a 10 those interviews. Mr. Pash played no substantive 10 Harvard-trained lawyer a report this thick, he's 11 role in the investigation itself. So I'm trying to 11 going to have some kind of comment. So I assume give you facts without waiving. 12 whatever it was, it was some kind of wordsmithing. 12 13 **Q.** I will ask it this way. 13 I can tell you this without waiving any privilege. 14 A. Okay. 14 Mr. Pash -- Mr. Pash's comments did not 15 Q. Did you consider the NFL to be your client 15 affect, and from the time I gave him that --16 for purposes of the attorney-client privilege --16 whenever he got that draft of the report, did not 17 A. Yeah. 17 impact in any substantive fashion the conclusions 18 **Q.** -- with respect to the preparation of this 18 with respect to my findings with respect to 19 investigative report? 19 violations by the Patriots or violations by 20 A. Yes. 20 Mr. Brady, nothing. You know, there was no 21 Q. Okay. That is fine. 21 substantive change. 22 Now so, therefore, I will just ask you --22 **Q.** Mr. Wells, I assume that you are not the 23 23 first drafter of this report, correct? One of your A. Okav. 24 Q. -- will you not, then, answer questions about 24 colleagues would have prepared the first draft and

25

you would have reviewed it; is that fair?

25

what type of comments Mr. Pash made on your draft

### Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 72 of 172 case 272 A. I think that's privileged, but I will answer 1 **Q.** Let's move on to another subject. Now, going 2 as long as it's not a waiver, yes. back to that same first page of your report, page 1, Q. Okay. Would your principal colleague on this 3 you say, "The investigation was conducted pursuant case be Mr. Lorin Reisner who is seated over there? 4 to the policy on integrity of the game and A. Correct. 5 enforcement of competitive rules." 6 Q. Now, Mr. Reisner, you observed, was Do you see that? representing the NFL and cross-examining Mr. Brady 7 Α. Yes. and Mr. Snyder in this proceeding; is that correct? 8 **Q.** To your knowledge, that's the only policy A. That is -- I saw it. You saw it. 9 that you were told about that you were conducting 10 Q. Okay. So, and Mr. Reisner was one of the your investigation pursuant, correct? 11 A. That is correct. principal lawyers working with you on this independent investigation, right? 12 Q. Okay. Now, at the time you did this report, A. If you read the report, it basically says 13 did you have any knowledge or did you determine that. 14 whether or not that policy was ever given out to 15 Q. So is it fair to say Mr. Reisner -- is Paul, players? Weiss also being compensated for representing the 16 A. I have no knowledge one way or the other. NFL in this hearing, conducting cross-examination? Q. Did you learn for the first time today at 17 Have they been hired as NFL counsel for that 18 this hearing that it was not given out to players? 19 A. I think -- I think I heard something to that purpose? 20 effect. A. As I understand it, again, if I can answer without waiving any privilege, in terms of 21 **Q.** Today? 22 cross-examining both the experts and cross-examining A. In terms of whatever knowledge I have is what Mr. Brady since we had already examined him and done 23 I heard today. the work, everybody thought it would be more 24 Q. Today? And it was prior to today and 25 efficient -certainly at the time you issued this report you DIRECT/WELLS/KESSLER Page 271 DIRECT/WELLS/KESSLER Page 273 MR. NASH: I am going to stop you right 1 didn't know one way or another whether that policy there, Mr. Wells. I don't think this is an 2 was something given out to players? 3 appropriate line of questioning and we are now A. That is correct. getting into privilege. And I have to say it also 4 Q. Now, with respect to your finding that isn't relevant to any issue in Mr. Brady's appeal. 5 Mr. Brady -- let's go to a specific finding. Let's MR. LEVY: Sustained. 6 look at, I am going to your Executive Summary. MR. KESSLER: Okay. I would ask you to, just 7 Let's go to your findings with respect to Mr. Brady. 8 for the record, my observation that the statement A. Page 2? that the Paul, Weiss firm is independent is clearly 9 Q. Page 2. So on page 2 of the report --A. Second paragraph. not correct. We now have testimony that they 10 represented the NFL in this proceeding. They viewed 11 Q. -- it says the following. You say, "Based on 12 the NFL as their client. the evidence, it also was our view that it was more **Q.** I will just ask one more question about this. 13 probable than not that Tom Brady, the quarterback A. Sure. 14 for the Patriots, was at least generally aware of **Q.** Do you agree, Mr. Wells, as an attorney, that 15 the inappropriate activities of McNally and you, when you have a client or any client, the NFL, 16 Jastremski involving the release of air from 17 anyone else --Patriots game balls." A. Sure. 18 Is that a fair summary of what you concluded Q. -- you have a duty under the ethical rules to 19 with respect to Mr. Brady that you put here? zealously advocate and advance the interest of that 20 A. Yes, just what I wrote. client? Is that fair, under the ethical rules? 21 Q. Okay. Now, am I correct that you don't make MR. NASH: Objection. We are now getting 22 any finding in the report that Mr. Brady 23 into arguments. participated himself in engaging in any activities

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

MR. LEVY: Sustained.

THE WITNESS: Okay.

24

25

finding?

to deflate footballs, right? You don't make such a

- A. Well, what I say in the report is that, one,
   I believe Mr. Brady was generally aware of the
   activities of Jastremski and McNally.
- I also say in the report that, based on my
  personal observations of Jastremski and McNally,
  both of whom we interviewed, I do not believe that
  these two gentlemen would have engaged in their
  deflation activities without -- I may use the word
  knowledge and awareness of Mr. Brady.

10 I'm not sure if those are the exact words,
11 but that's the substance of what I say in the
12 report.

- Q. Okay. But you don't make any finding that,if you listen to my specific question --
- 15 A. Sure, okay.
- **16 Q.** -- that it is more probable than not based on
- 17 the evidence that Mr. Brady himself directed them to
- **18** deflate the ball in that game, correct? You don't
- 19 make such a finding here?
- 20 A. I'm hesitating about the word "direct,"
  21 because what I do say in the report is I don't think
  22 they would have done it without his knowledge and
  23 awareness.
  - Now, but I don't have a phrase, you are correct, where I say he directed them. What I say

### DIRECT/WELLS/KESSLERPage 275

- 1 is I believe that they would not have done it unless
- 2 they believed he wanted it done in substance.
- **Q.** And that would apply even if he never told
- 4 them to do it, even if he never authorized them to
- **5** do it, even if he never said do it? What you were
- **6** stating there is you believe that because he was Tom
- 7 Brady, okay, that they would not have done something
- **8** unless they thought it would be something he would
- 9 like or want, right?
- 10 A. No.

24

25

- **11 Q.** Isn't that fair to what you concluded?
- 12 A. No, no, no, that goes way too far in the
- 13 sense that you are not looking at the evidence that
- 14 I cite.

15

16

17

25

- For example, one of the core pieces of evidence that we cite against Mr. Brady is the text message where McNally says, "Fuck Tom."
- And Jastremski says in substance, "He asked about you yesterday. He said it must be a lot of stress getting the balls done."
- 21 So that message we interpret in the report to 22 mean that Tom Brady actually had a conversation with 23 Jastremski and during that conversation, he actually 24 asked about McNally and the statement was made by

Brady that McNally must have a lot of stress getting

- 1 them done, which we interpret to mean getting the
- 2 balls deflated. So that's direct evidence of
- 3 knowledge and involvement.
- **Q.** That's the Jets game when those
- 5 communications took place, right?
  - A. That's correct.
- **Q.** Were the balls deflated in the Jets game or
- 8 inflated?

6

- 9 A. In that particular situation, what they
- 10 were -- what they were discussing was the inflation
- 11 of the balls in the Jets game, but you have to step
- 12 back in terms of how we viewed the evidence.
- 13 Mr. McNally was a locker room attendant.
- 14 Mr. McNally had no duties involving inflation or
- 15 deflation of balls.
- Mr. McNally's job was to care for the
  referees. In fact, I'm not sure if we say it in the
  report, but the referees actually would get together
- 19 and put together tips to give Mr. McNally at the end
- 20 of the game. They only tipped two people, the bus21 driver and the locker room attendant.
- 22 So Mr. McNally is somebody who Mr. Brady said
- 23 he didn't even know, who should not have had
- 24 anything to do with balls, yet Mr. Brady is saying
- 25 that Mr. McNally must have a lot of stress getting

## DIRECT/WELLS/KESSLERPage 277

- 1 them done, which as I said, we interpret to mean
- ${\bf 2} \quad \text{deflation, even though it was in the context, and} \\$
- 3 you are correct, of the Jets game.
- **Q.** Even though it was all about inflation, you
- 5 interpret it to be about deflation?
- 6 A. That's correct, sir.
- **Q.** And did you also look at the e-mail where --
- 8 A. E-mail or text?
- **9 Q.** The e-mail. I will show you the e-mail.
- **10** This is on page 86 of your report -- the text; I'm
- **11** sorry --
- 12 A. I was just trying to make sure.
- **13 Q.** -- where he said --
- 14 A. Hold on.
- **15** COMMISSIONER GOODELL: 86, did you say?
- MR. KESSLER: Yes, 86.
- 17 A. You just threw me off when you said "e-mail."
- **18 Q.** Sorry. Okay, the text, when he's writing to
- 19 his fiancé Panda and he says, "I just mentioned some
- 20 of the balls. They are supposed to be 13. They
- **21** were, like, 16."
- 22 Do you see that?
- 23 A. Yes.
- **Q.** Now, 13 would be within the legal limit,
- 25 riaht

	Case 1:15-cy-05916-RMR-1CF Document 2	2 <mark>8-2</mark>	30 Filed 08/04/15 Page 74 of 172 DIRECT WELLS KESSLER Page 280
1	A. Yes.	1	A. Yes.
2	<b>Q.</b> So what he was saying here, he thought the	2	Q. Okay. And how many experts did you consider?
3	balls were supposed to be 13, not lower than the	3	A. Well, what happened was as follows. Right
4	legal limit? That's what he wrote, right?	4	after I was retained, there started to be a lot of
5	A. That's what he wrote.	5	publicity about the Ideal Gas Law. And I started
6	Q. Right. Do you have any reason to think why	6	getting parroted with articles about the Ideal Gas
7	he would lie to his fiancé about this subject after	7	Law, so it was clear I needed to hire experts
8	the Jets game? What would be his motive?	8	preferably physicists.
9	A. I didn't say he lied to his fiancé.	9	We reached out to Columbia University.
10	Q. Okay. So then, you believe that	10	Columbia has a very respected Physics Department.
11	Mr. Jastremski truthfully told his fiancé that he	11	It was close, in close proximity to Paul, Weiss. So
12	was trying to get the balls to 13 and they came out	12	our hope at that time was that we could find
13	16, right? That was a truthful statement, you	13	somebody at Columbia. Mr. Reisner sent an e-mail to
14	believe?	14	the Physics Department at Columbia asking if they
15	A. Yes.	15	could help us, and I think he may have also talked
16	Q. Okay. And if he was trying to get them to	16	to somebody. And he told them this is confidential.
17	13, that was not a deflation below the limit, was	17	To our shock, after he contacted Columbia's
18	it?	18	Physics Department, there was an article, either the
19	A. No.	19	next day or the day after in the New York Times that
20	Q. Okay, thank you.	20	Paul, Weiss had reached out to the Columbia Physics
21	Now, Mr. Wells, how much was Paul, Weiss paid	21	Department. And we were, to say, the least outraged
22	to do this report?	22	that we had reached out in what we thought was a
23	MR. NASH: Objection as to privilege and	23	confidential contact and then it was published in
24	relevance. There is no question that they were	24	the New York Times.
25	paid. I don't see how	25	What happened, so that disqualified Columbia.
	DIRECT/WELLS/KESSLER Page 279		DIRECT/WELLS/KESSLER Page 281
1	MR. KESSLER: Definitely not privileged.	1	Columbia was where we wanted to go. What happened
2	MR. NASH: I don't see how it bears on any	2	next is that a professor from Columbia e-mailed
3	issue relevant to Mr. Brady's appeal.	3	Mr. Reisner maybe the next day, and the professor
4	MR. LEVY: I am going to allow it.	4	said that he understood we were looking for experts
5	Q. How much were you paid?	5	in physics and he recommended Exponent.
6	A. I don't know. The "paid" question is	6	And he said that Exponent was where many of
7	interesting.	7	Columbia's graduates who wanted not to go the
8	<b>Q.</b> Billed, I will go with billed. How much was	8	academic route would go and work and he thought it
9	billed?	9	was a first-class outfit and that that's who we
10	A. For the report, through May 6th, it's	10	should talk to.
11	somewhere in the area and I'm not sure the bill	11	And he actually had in the e-mail, I think,
12	was out, but it's going to be around somewhere in	12	Gabe's name, and we contacted him. So that's how
13	the range of 2.5 to 3 million.	13	so we get to Exponent through the recommendation of
14	<b>Q.</b> And you would be paid additional amounts for	14	Columbia. Now, at the same time, because we don't
15	the work that Mr. Reisner is doing today or others	15	know whether Exponent is going to work out, we
16	assisting the NFL? That would be additional bills,	16	contact the Princeton Physics Department. And they
17	right?	17	recommend that we should talk to Dr. Marlow.
18	A. I hope so.	18	So at this juncture, we scheduled two
19	Q. Yes. By the way, are you billing for your	19	interviews. We schedule an interview with Exponent
20	testimony today as a witness?	20	and we schedule an interview with Dr. Marlow. And
21	A. I don't know. I haven't broached that.	21	the fact that the people in the Physics Department
22	Q. Okay. Now, let me ask you next when you were	22	at Columbia had leaked to The Times had us a little
23	retaining Exponent in connection with this matter,	23	nervous about going the academic route. So we were
24	did you have discussions with other experts before	24	somewhat more attracted maybe going to a traditional
25	you retained Exponent? /2015 03:43:11 PM Page 278 to	25	consulting firm. of 457 74 of 172 sheets

We met, and I'm not sure what order, but it was within a day of each, we met with each of them separately. I thought Exponent had the resources, because we thought we would need testing, not only of the gauges, and we didn't know a lot.

You know, this is in the early days. This is first few days. But we knew we had to test these gauges because the first question is, do the gauges work? Are they reliable?

We didn't know if there was impact of -- on the footballs of just playing in the game, whether it's pounding, a 300-pound lineman falls on the ball or something. So we knew we needed people with resources to do testing.

So we meet with Exponent and we liked -- and we liked them. And then we met the next day with Dr. Marlow and we liked him. But we were very concerned because of what happened with Columbia about doing any testing at Princeton because Dr. Marlow said if we wanted to do the tests in the Princeton lab, because of federal regulations or what have you, they have a lot of students and they couldn't guarantee confidentiality.

So again, we were back into the academic world and concerned that we are going to have leaks.

### DIRECT/WELLS/KESSLERPage 283

- 1 What we ultimately decided to do was to hire both.
- 2 We hired Exponent to be the lead expert in terms of
- 3 doing the tests that needed to be done and advising
- 4 us on how to look at this data. And we hired
- 5 Dr. Marlow as our consultant and his job was to
- 6 watch Exponent.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

So we kind of had what I will call belt and suspenders. We have got a firm that we believed had the resources to do the testing, and we thought we would need physicists and engineers and statisticians, but also a lot of equipment that you might not have in an academic setting. And we wanted privacy, okay, we didn't want leaks. We were very conscious. We did not want leaks.

So we get Dr. Marlow. Like I said, his job is to really watch. He's supposed to work with Exponent, but he's supposed to -- he's not doing testing. He is listening to their work plan. He's listening to, you know, their ideas. He's running numbers.

They are going to run numbers, but he's my eyes and ears so I got to double-check. And one other thing I want to say is that I told them both in the interview before I even hired them, I said what this job involves is similar to being a

1 court-appointed expert.

I said you should view us like a judge or a court that's hiring an expert. I said we have no dog in this race. All we want to know is how to

5 look at this data. That's the job.

6 And we have no thesis. It's not like a 7 normal, in the world we live in, Mr. Kessler, where

8 you and I represent a client and we have got a

9 particular position, be it the plaintiff or the

defendant, and you got a thesis and you want anexpert to know whether or not you can support that.

We said we don't care about the outcome at all. We just want objective science, and understand that. So those, we told them those were the terms if they wanted to come on board. And they were both

16 fine with that. So that's a long-winded way of how

17 we got to Exponent.

18 Q. Is it fair to say, Mr. Wells, that Paul,

19 Weiss is a law firm, not a law firm of statisticians

20 or physicists or scientists? Is that fair to say on

21 the whole?

A. That is true, but I will tell you we areblessed with such talent that we ended up finding

24 that we had a Ph.D. physicist among our associates

25 and we added that young man to the team. But I was

DIRECT/WELLS/KESSLERPage 285

1 shocked to find out that we had such a person.

**Q.** Let me ask the question differently.

3 A. Your answer is yes.

4 Q. Did you rely upon Exponent and Dr. Marlow to

**5** reach whatever testing, scientific, statistical

6 conclusions were presented?

7 A. Yes.

8

**Q.** And so Paul, Weiss didn't independently make

**9** any scientific testing, statistical conclusions on

**10** its own, correct?

11 A. That is correct.

**Q.** Okay. And is it fair, then, that if for

13 whatever reason it was concluded that Exponent's

14 work was not a basis for reliable conclusions here,

15 that then there would be no scientific conclusions

**16** that are reliable in your report?

17 In other words, you don't have any other18 source of reliable evidence about the balls other

**19** than what you claim is done by Exponent as

20 supervised by Dr. Marlow; is that correct?

21 A. I have no other source; that is correct.

**22 Q.** Right.

23 A. My only hesitancy about adopting your

24 question in full is if it was established there was

25 a mistake in some small area and it didn't impact

## Case 1:15-cv-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 76 of 172 case 1:15-cv-05916-RMEDS/KESSLERPage 288

- 1 the overall conclusion, that wouldn't necessarily
- 2 invalidate the entire analysis. But I think we are
- 3 on the same page.
- **Q.** If it was something sufficient to render it
- 5 unreliable, then there would be no reliable
- 6 scientific findings here?
- 7 A. Yeah, I do not have any independent
- 8 scientific analysis within my team or somewhere
- 9 else. You are correct.
- 10 Q. Okay. Now, Dr. Marlow's specialty is
- 11 theoretical physics; is that correct?
- 12 A. That's my understanding.
- **Q.** He is not an expert statistician, right?
- 14 A. No, but as part of the -- well, I don't know
- 15 that. I don't want to say that he's not an expert
- 16 statistician because I do not know. I know
- 17 Exponent, we have a professor of statistics with a
- 18 Ph.D. who is a core part of our team who is here to
- 19 testify today.
- **20 Q.** You didn't look to Dr. Marlow to provide this
- 21 statistical expertise?
- 22 A. No.
- **Q.** That was not why he was hired by you?
- 24 A. No, no. That would be totally incorrect.
- 25 The statistical work in the early days, Dr. Marlow

### DIRECT/WELLS/KESSLERPage 287

- 1 from my personal observations, participated fully
- 2 because -- because the way we did it, I just forget
- 3 what page it was on (perusing). The way we
- 4 approached it, Mr. Kessler, was as follows.
  - You know, the first question we asked just
- 6 looking at the raw numbers, was whether or not there
- 7 was a difference. If you just looked at the
- 8 numbers, it looks like the Patriots' balls drop more
- 9 than the Colts.

5

11

10 And then the question is, is that drop as a

result of chance or something else? And so that was

- 12 the question about statistical significance, just
- 13 looking at the raw numbers. Because if they had
- 14 told us it's just chance, maybe it's not there and
- 15 you don't spend a lot more money.
- 16 And so that was kind of the first look-see
- 17 just looking at the raw numbers. And I remember
- 18 right after we hired Dr. Marlow, he was on the phone
- 19 with me giving me his views of the statistics.
- 20 So that's why I say he was fairly active in
- 21 those early discussions and throughout the entire
- 22 representation. Dr. Marlow was, from my
- 23 observation, very much into the statistics.
- **Q.** Mr. Wells, you came to learn from Exponent
- 25 and Dr. Marlow that there were many unknowns that

- 1 could affect the application of the Ideal Gas Law to
- 2 the footballs that were tested during the AFC
- 3 Championship Game; is that fair?
- 4 A. I think the answer is yes. And let me
- 5 explain why I'm hesitating, Mr. Kessler. The
- 6 application of the Ideal Gas Law is, in and of
- 7 itself is, it's kind of nuanced in the sense that
- 8 the Ideal Gas Law is a theoretical concept that
- 9 predicts the impact of temperature change on
- 10 pressure.
- 11 And it's a mathematical formula that you need
- 12 a whole lot of things to be satisfied and in place
- 13 for it to work. So that, the Ideal Gas Law was out
- 14 there.
- **15 Q.** Let me ask you differently.
- 16 A. Okay.
- 17 Q. Let me ask you this way. You came to learn
- **18** that no one ever recorded the precise time that each
- **19** of the balls were tested at halftime, correct?
- 20 A. I didn't need the experts for that.
- **Q.** You learned that?
- 22 A. I learned that from the interviews.
- **Q.** You came to learn that no one recorded the
- 24 temperature inside the clubhouse at the time that
- 25 the balls were tested at halftime, correct?

### DIRECT/WELLS/KESSLERPage 289

- 1 A. Correct.
- **Q.** You came to learn that no one even specified
- 3 whether or not the -- wrote down and specified
- 4 whether the Colts' balls were tested after or before
- 5 the Patriots' balls were reinflated? It was
- **6** uncertain about that, correct?
- 7 A. Correct.
- **Q.** Okay. You came to learn that no one
- 9 indicated whether the balls were wet or dry when
- **10** they were tested?
- 11 A. Correct. I don't have any data.
- **12 Q.** Right.
- 13 A. And again, I have different witnesses who
- 14 have different recollections. But I don't have any
- 15 written documentation about what people saw at that
- 16 moment in time, other than the raw data.
- **Q.** And at all the points I'm covering, if you
- have different witnesses, they have differentrecollections because that's why you wrote it was
- **20** uncertain?
- 21 A. That's correct.
- **Q.** Because the recollections were different?
- 23 A. That's correct. When I had sufficient --
- 24 when I thought the evidence was sufficiently clear,
- 25 we made a finding --

- 1 **Q.** Right.
- 2 A. -- or we stated this is the facts. When I
- 3 thought there was uncertainty and I wasn't willing
- 4 to make a finding, I stated with clarity that there
- 5 was uncertainty.
- 6 **Q.** So there was, I think you wrote in your
- 7 report that there was uncertainty about the time.
- 8 There was uncertainty about the temperature. There
- 9 was uncertainty about the order of the tests. There
- 10 was uncertainty about the wetness or dryness.
- 11 And you also came to learn all those factors
- 12 could affect a determination as to whether the
- 13 Patriots' measurements could have been due to
- 14 natural forces or not? You came to learn that,
- 15 correct?
- 16 A. Yeah. And, in fact, one of the things, we
- 17 have had a lot of testimony about it today was the
- 18 impact of timing within the locker room at halftime.
- 19 And just what Dr. Dean Snyder was discussing, but --
- 20 but when we first get into the case, we haven't
- 21 focused on that yet.
- 22 All these articles I'm getting at the
- 23 beginning of the case on the Ideal Gas Law are based
- 24 on the assumption that they measured the balls in
- 25 the warm locker room. They have taken them out to

### DIRECT/WELLS/KESSLERPage 291

- 1 the field where it's, like, 48 or 50 degrees. And 2
  - the story kind of ends.
- 3 Nobody is really focused yet that when they
- 4 came in at halftime and they brought the balls back
- 5 into the room, that when they came from the cold
- 6 back into the hot, the warmer room, the pressure
- 7 started to increase as they heated up. And really,
- 8 Exponent was the expert that really focused on that.
- 9 And that's why I discussed in such detail in
- 10 the report, because they are the ones that focused
- 11 on that issue which really no one, you know, to my
- 12 knowledge, had. And I wasn't even sensitive to it.
- 13 **Q.** And Mr. Wells, another point you came to as
- 14 being uncertainty, you wrote was whether or not when
- 15 the initial testing was done before the game,
- 16 whether that was done by the logo gauge or the
- 17 non-logo gauge, right? You concluded that was
- 18 uncertain?
- 19 A. No, no. I made an express finding and so did
- 20 the -- the experts made a finding and I -- and when
- 21 I say "I," I mean collective "I," my team, we made
- 22 an express finding that the non-logo gauge is the
- 23 gauge that was used by Walt Anderson when he tested
- 24 the balls. That is an express finding in the
- 25 report.

- 1 Q. Now, Mr. Anderson was interviewed by you,
- 2 correct?
- A. Yes, sir. 3
- 4 **Q.** And he said his best recollection was that it
- 5 was the logo gauge, correct?
- 6 A. That's absolutely correct.
- 7 Q. So you have decided to conclude something
- 8 opposite to the best recollection of the only
- 9 witness you have as to which gauge was used, right?
- 10 A. Well, no. When you say "the only witness, I
- 11 have three witnesses as to whether the ball started.
- 12 Because that's the issue. Let's talk about the --
- 13 let's forget people for a minute. The issue is
- 14 where did the balls start in the locker room before
- 15 they went outside?
- 16 Because what we are trying to measure, we are
- 17 trying to measure the beginning pressure from where
- 18 they started in the locker room pre-game, and then
- 19 the balls go outside. They deflate with the cold.
- 20 Then they come back into the room at halftime and
- 21 they start to slowly rise.
- 22 And those measurements that Mr. Prioleau and
- 23 Mr. Blakeman took, now you are trying to compare
- 24 what was the starting psi and where was it at
- 25 halftime? So that's the exercise, okay. So the

### DIRECT/WELLS/KESSLERPage 293

- 1 question, the relevancy of non-logo, logo, is really
- 2 to ask your question, where did the balls start?
- 3 Now, the evidence we have is that the
- 4 Patriots were emphatic with us that they set their
- 5 balls at 12.5 or 12.6. That testimony came from
- 6 Mr. Jastremski and it also came from Mr. Brady. Our
- 7 balls are coming in at 12.5 or 12.6. So that's the
- 8 Patriots. So I assume for the AFC Championship
- 9 Game, the Patriots are set. They know where they
- 10 are setting their balls. They have told me they are
- 11 12.5, 12.6.
- 12 We then go interview the Colts. The Colts
- 13 say their balls are at 13, maybe 12.95, maybe 13.1,
- 14 but that's their number. But they are 13. And they
- 15 are emphatic. You have two witnesses, the Colts at
- 16 13, Patriots at 12.5. And let's just forget Walt
- 17 Anderson existed. If he disappeared from the face
- 18 of the earth, I would have written a report that
- 19 said these balls started at 12.5 and 13 because
- 20 that's what the Patriots told me and that's what the
- 21 Colts told me.
- 22 Now, what happened next is Walt Anderson
- 23 actually gauged the balls. And Walt Anderson said 24
  - when he gauged the balls, they measured Patriots
- 25 12.5, may have been a couple, two exceptions, and

#### Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 78 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 78 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 78 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 78 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 78 of 172 Case 1:15-cy-05916-RMB-1CF Page 794 Page 795 Page 79 Colts at 13. So Walt Anderson without talking to 1 Α. That it correct. 2 the Patriots, talking to the Colts, has said what he

Now, how do you get to what gauge he used? The only way Walt Anderson could get to 12.5 for the Patriots and 13 for the Colts is if he used the non-logo gauge. And that is because the logo gauge

observed is just what the Patriots said and what the

10 That gauge, it may read high, but we tested 11 it hundreds of times. It always reads .3 to .4. 12 It's like I tell people I have a scale in my house.

always reads .3 to .4 higher. It is consistent.

13 Q. Mr. Wells, can I break in to ask a question 14 here. I know you would like to make a speech about 15 your report, but I would like to ask a question.

MR. LEVY: Why don't we let him finish.

17 MR. KESSLER: It wasn't even the question.

18 MR. NASH: It was.

1

2

3

4

5

6

7

8

9

16

25

Colts said.

19 A. I have a scale in my house. I have two 20 scales. One scale reads the same as the calibrated 21 scale at the gym. I know that's the perfect scale. 22 I have another scale that always reads three pounds

23 lighter. I love that scale. But that scale is as 24 calibrated as the good one.

You know why? It's consistently three pounds

DIRECT/WELLS/KESSLER Page 295

1 under. That's how -- that's how the logo gauge is.

2 It always is reading high. And the only way you

3 could get those measurements where Walt says he saw

4 just what the Patriots saw and what the Colts saw is 5 with the non-logo gauge.

6 And that's why we made that finding. Now, 7 maybe lightning could strike and both the Colts and 8 the Patriots also had a gauge that just happened to 9 be out of whack like the logo gauge. I rejected that. 10

11 MR. LEVY: Why don't you ask another 12 question.

13 Q. Okay, Mr. Wells, I know you have been in my

14 shoes, okay.

15 A. Okay.

16 **Q.** Try to bear with me and answer my questions.

17 A. I just haven't been in this chair. This is 18 kind of interesting.

19 MR. NASH: You asked for it.

20 **Q.** So my question is very specific. I am going

to try to be very specific. You just testified that

22 you never found the Patriots gauge, right? You now

23 that?

24 A. That is correct.

25 Q. You never found the Colts gauge, correct? Q. So as you are sitting here, you have no idea

3 whether the Patriots and the Colts gauge would read

4 exactly like the logo gauge or the non-logo gauge?

5 You have no basis for knowing one way other the

another? 6

7 A. In terms of the actual gauge, you are

8 absolutely correct. I had to make a judgment.

9 So bear with me.

10 A. Okay.

11 Q. If their gauges read like the logo gauges

12 because they were older gauges that were given by

13 Wilson and may have looked just like the logo gauge,

14 then they might read like the logo gauge if that was

15 true?

16 A. That's what I mean if lightning were to

17 strike and what you would have to have happen in

18 terms of my analysis, you would have to have had

both teams for that Championship Game had gauges 19

20 that were .3 to .4 off and then that all flowed into

21 Walt Anderson using the logo gauge which was .3 to

22 .4 off.

25

23 And I don't think that happened and that's 24 what I ruled. I think what I ruled is totally --

not only do I think it's correct, I think it's

DIRECT/WELLS/KESSLER Page 297

1 reasonable.

2 Q. Now let's talk about what else is here to

make lightning strike. The Patriots didn't tell 3

4 you -- you mentioned you had three sources. The

5 Patriots didn't say anything about what gauge

6 Mr. Anderson used, right? They didn't know what

7 gauge he used?

8 A. Correct.

9 Q. The Colts didn't tell you anything about what

10 gauge he used, correct?

11 A. Correct.

12 Q. The only person who told you anything about

13 which gauge he used is Mr. Anderson?

14 A. Correct.

Q. Who said his best recollection was it was the 15

16 logo gauge, direct?

17 A. Correct, but he also said it was possible he

18 was mistaken.

19 **Q.** As you know as a lawyer, witnesses will say

20 anything is possible?

21 A. Not Walt Anderson. You need to meet him.

22 You should call him.

23 **Q.** He maintained with you he really thought it

24 was the logo gauge?

25 But he also maintained that he could have

#### Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 79 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 79 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 79 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 79 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 79 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 79 of 172 Case 1:15-cy-05916-RMB-1CF Page 79 Case 1:15-cy-05916-RMB-1CF Page 70 Case 1:15-cy-05916-RMB-1CF Page 70 Case 1:15-cy-05916-RMB-1CF Page 70 Case 1:15-cy-05916-RMB-1CF Page 70 Case 1:15-cy-05916-1 1 A. -- 56. been wrong. 2 2 **Q.** Yes. Q. Now, let me direct your attention to NFL 3 Exhibit 14. 3 A. And this is in the report. I just don't A. I don't have it. I don't have it, sir. 4 4 think we addressed 260. But on 256, if you look at Q. You don't have that? it, it says, I think it says, "Belonged to JJ." 5 5 6 6 Do you see that? A. Unless somebody gives it to me. 7 MR. NASH: I will get you one. 7 Q. Yes. 8 8 A. He wrote that days later because Robyn MR. KESSLER: I'm sorry; I apologize. 9 THE WITNESS: This is the whole book? 9 Glaser, a lawyer for the New England Patriots, told 10 MR. NASH: That's the binder. It's 14. 10 him that that was JJ's gauge. And then he wrote it 11 A. I'm sorry; I didn't have it. Okay, go ahead. 11 there. 12 **Q.** Take a look at page 260. 12 And when we questioned him, we said, Where 13 A. 260? 13 did this come from and when? He said, This is what 14 Q. Do you recognize these were the notes that 14 Ms. Glaser told me and we talked to her and she is 15 confused, so that's how it got there. It was after 15 were taken, this whole exhibit, at the various the fact and it came from Robyn Glaser. And I think 16 testing at the halftime and the post-game the day of 16 17 the game? Do you recognize that that's what these we explained that in a footnote in the report, if my 17 18 notes are? 18 recollection is correct. 19 A. But just help me. Are these -- is this what 19 Q. Take a look at page -- take a look the 20 20 is taken at the end of the game? Exponent report for a second, which is NFLPA 21 Q. Well, it's all of it. What's taken on 21 Exhibit 8, if it's separate. Take a look at page 22 22 page --Roman IX, the Executive Summary. 23 A. Page 260. 23 It says in the second paragraph, "We have 24 Q. -- page 260, as you can see, has four and 24 been told by Paul, Weiss that there remains some 25 25 four. So this would have been at the end of the uncertainty as to which of the two gauges was used DIRECT/WELLS/KESSLERPage 299 DIRECT/WELLS/KESSLERPage 301 1 game? 1 prior to the game." 2 2 A. Okay, that's what I wanted clarification. I Do you see that? A. Yes. 3 agree these are the notes taken at the end of the 3 **Q.** Is that true? 4 4 5 **Q.** Okay. And I will show you the other pages, 5 6 6 but ultimately, in the report itself, I make an too.

- 7 A. Okay, okay.
- 8 **Q.** So at the top, it's written when it says,
- 9 "Ending number 1," okay.
- 10 A. Right.
- 11 Q. It says, "JJ gauge, red Wilson sticker."
- 12 Do you see that?
- 13 A. Yes.
- 14 Q. You know who JJ is?
- 15 A. Yeah, Jastremski.
- 16 **Q.** Okay. So somebody thought the gauge used by
- 17 Indianapolis was the same as JJ's gauge,
- 18 Mr. Jastremski's missing gauge, correct?
- 19 A. Yeah. Let me tell you what I recollect
- 20 happening. These notes are made by Mr. Farley.
- 21 Mr. Farley wrote things on these documents after
- 22 they were signed. So the one I know -- I don't have
- 23 an express recollection about 260. The same
- 24 information, though, is -- he writes on 2 --
- 25 Q. 56?

- A. You know that is true that I told them that,
- express finding that the non-logo gauge was used. 7
- And, in fact, also in the Exponent report, they make 8
- 9 the finding.
- 10 But in terms of my role as the ultimate
- 11 finder of fact, I made a ruling that I believe is
- 12 absolutely correct based on the evidence that the
- 13 non-logo gauge is the one that was used by Walt
- 14 Anderson.
- 15 **Q.** Well, when did you tell them there was some
- 16 uncertainty remaining?
- 17 A. At the beginning of the case because I didn't
- 18 know, okay. We have uncertainty. They did one.
- 19 They go out and buy hundreds of gauges and they do
- 20 not only what they call exemplars, they take the
- 21 logo gauge and the non-logo gauge.
- 22 The right question to ask is whether both of
- 23 these gauges, do they work, are they reliable and
- 24 are they consistent? So they run the test on the
- 25 non-logo gauge and they find that that gauge is

# Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 80 of 172 Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 80 of 172

- 1 almost perfectly calibrated. It works over hundreds
- 2 of tests. It works close to what they call the
- 3 master gauge. They have a master
- 4 perfectly-calibrated gauge.
- **5 Q.** So your testimony, I just want to understand,
- 6 is that the Exponent report was issued the same day
- **7** as your report, correct?
- 8 A. Yes, sir.
- **Q.** And despite that fact, they wrote on that day
- 10 that there was some uncertainty still about which
- 11 gauge was used. You are saying they were wrong?
- 12 There was no longer any uncertainty --
- 13 A. No, no, sir.
- **14 Q.** -- the date their report was issued?
- 15 A. I said ultimately I made a finding in the
- 16 report.
- **Q.** Did that resolve the uncertainty?
- 18 A. Well, what I'm saying to the public, anybody
- 19 that reads this report, you will see I say clearly,
- 20 because I try to be transparent about what all the
- 21 witnesses said. So I say Walt Anderson says it is
- 22 his best recollection that he used the logo gauge.
- 23 We then did tests that showed that there is
- 24 consistent uptick on the logo gauge of .3 to .4.
- 25 The scientists, the Exponent people say they believe

### DIRECT/WELLS/KESSLERPage 303

- 1 based on their scientific tests that the non-logo
- 2 gauge was used.
- 3 I have a ruling that says there's
- 4 uncertainty, but I am making a ruling as a finder of
- 5 fact, because that's my job as the judge, that it's
- 6 more probable than not that the non-logo gauge was
- 7 used by Walt Anderson. That is set forth in those
- 8 words or substance in both my report and in the
- 9 Exponent report.
- **10 Q.** Okay. So in your role as the judge, okay,
- 11 you concluded that you were going to reject as a
- 12 finder of fact Mr. Anderson's best recollection that
- 13 he used the logo gauge, correct?
- 14 A. Not only did I reject it, I first said this
- 15 is what he says and this is why I am rejecting it.
- 16 And I set it out so everybody can see it. Look,
- 17 this is no different than a case where somebody has
- 18 a recollection of X happening and then you play a
- 19 tape and the tape says Y happened.
- Now, the person could keep saying, well, darn
- 21 it, I remember it was X. But the people are going
- 22 to go with the tape. I went with the science and
- 23 the logic that I had three data points. And that's
- 24 what I based my decision on. It is a totally
- 25 reasonable and, I think, correct decision.

- 1 Q. Okay. I'm not going to quarrel with you
- 2 right now about what you did. I just want to
- 3 confirm, so in addition to Mr. Anderson, there are a
- 4 number of other testimony from people who you
- **5** rejected in your conclusions in this case, correct?
- 6 A. You have to give me specifics.
- **Q.** I am going to give you specifics.
- 8 A. Okay.
- **9 Q.** You rejected the testimony of Mr. Brady that
- 10 he knew nothing about the ball deflation in the AFC
- 11 Championship Game, right? You rejected that?
- 12 A. I did reject it based on my assessment of his
- 13 credibility and his refusal or decision not to give
- 14 me what I requested in terms of responsive
- 15 documents.
- 16 And that decision, so we can all be clear and
- 17 I will say it to Mr. Brady, in my almost 40 years of
- 18 practice, I think that was one of the most
- 19 ill-advised decisions I have ever seen because it
- 20 hurt how I viewed his credibility.
- 21 Q. If he had given you that, you would have
- 22 accepted his statement?
- 23 A. I do not know. I can't go back in a time
- 24 machine, but I will say this. It hurt my assessment
- 25 of his credibility for him to begin his interview by

### DIRECT/WELLS/KESSLERPage 305

- 1 telling me he declined to give me the documents.
- 2 And I want to say this. At that time,
- 3 neither his lawyer nor Mr. Brady gave me any reason
- 4 other than to say, "We respectfully." They were
- 5 respectful. They said, "We respectfully decline."
- 6 There wasn't anything about the Union or it wasn't
- 7 anything, This was what my lawyer told me and I am
- 8 going to follow my lawyer's advice.
- 9 I was given no explanation other than, "We
- 10 respectfully decline." And I did, I walked
- 11 Mr. Brady through this request in front of his
- 12 agents and lawyers. So I understood that he
- 13 understood what I was asking for and they were
- 14 declining.
- **Q.** Did his agents or lawyer ask you what the
- 16 authority was for you asking for those types of
- 17 information?
- 18 A. No, that's not my recollection. They asked
- 19 the authority for him to do the interview, I think.
- **Q.** You don't recall them asking for the
- 21 authority to demand e-mails or cell phones or
- 22 anything like that?
- A. My recollection, there's e-mail. The e-mail
- 24 says what it says. But I thought the e-mails said
- 25 authority to conduct the interview, but we ought to

#### Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 81 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 81 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 81 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 81 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 81 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 81 of 172 Case 1:15-cy-05916-RMB-1CF Page 81 of 172 Case 1:15-cy 1 grab the e-mail. 1 A. I don't think so. Could you show me where I 2 2 do that? Q. We will come back to that. 3 Let me just go through where I wanted to go, 3 **Q.** Well, didn't you conclude that it departed other people you rejected. You rejected Mr. Brady 4 4 from some established protocol for McNally to take 5 as we just said. You rejected Mr. Anderson. You 5 the balls by himself to the field and this was a 6 rejected Mr. Jastremski and Mr. McNally who denied fact that you relied upon? 6 7 any knowledge of any deflation on the AFC 7 My recollection is what we said is that based Championship Game, right? You rejected the two of 8 8 on our interviews of the referees, that Mr. McNally 9 them? 9 was either to take the balls out with the refs as 10 A. Yeah, because I did not think they were being 10 they walked out of the locker room or if he was 11 candid. 11 going by himself, he had to get permission first. 12 Q. Okay. I just want to go through the various 12 That is what my recollection of the report is. 13 people who you rejected. In addition, do you 13 And I don't think -- I don't think the report 14 recall, I think you already mentioned you rejected 14 has any rejection of their testimony. And if it 15 15 what Farley wrote down that it was Mr. Jastremski's does, I will stand corrected if you show it to me. 16 gauge? You concluded that was not correct? 16 **Q.** So you do accept the fact that Mr. McNally 17 A. No. Mr. Farley told me that he wrote it down 17 might routinely take the balls out by himself if he 18 after the fact and Robyn Glaser confirmed that she 18 had permission? 19 told that to Farley and it was just a mixup. It 19 A. I am just quarreling over the word 20 20 "routinely." What we ruled and found in the report wasn't a question of rejecting it. 21 It was a question of when I looked this, the 21 in terms of what was standard operating procedure 22 22 right question to ask was that statement put on based on the referees and those are the people we 23 there contemporaneously with the other stuff? Was 23 based it on, is that he had to get permission if he 24 it done on the night of January the 18th? 24 was going out by himself. 25 25 Q. But you are not saying you don't believe the Well, Mr. Farley said no, he wrote that days DIRECT/WELLS/KESSLERPage 307 DIRECT/WELLS/KESSLERPage 309 1 later and he wrote it because Ms. Glazer said it. 1 people standing outside the door who said to them it 2 So I actually accepted what Mr. Farley told me what 2 was routine or half the time that he would go with 3 3 the balls himself to the field? happened. 4 Q. Do you recall that there was someone you 4 A. I didn't feel I needed to reach a conclusion interviewed who was named Rita Callendar? 5 5 on that because there was no question that he had 6 A. I'm not sure. Somebody on the team may have. 6 not gotten permission that day and that he had 7 Q. She worked for Team Ops, a security guest 7 broken protocol. And I didn't need to drill down 8 8 services company who worked for the Patriots. and decide when he walked down the hall 50 percent 9 A. Oh, she was the person that stood outside one 9 of the time by himself or was this person right or 10 of the locker rooms, right. Now I recall her. Go 10 that person right. 11 11 ahead. What I ruled was that he left without 12 Q. And Ms. Callendar told you that she estimated 12 permission and that he broke protocol and didn't 13 about 50 percent of the time, Mr. McNally took the 13 really turn on what those two individuals were 14 balls out by himself to the field. Do you recall 14 saying. So I didn't have to make a judgment about 15 that? 15 them. 16 A. Yes. 16 Q. Let me ask you this. You indicated in your 17 17 Q. And you got the same testimony from Mr. Paul report and at your press conference that you found 18 that there was no bias by NFL or by the NFL in how Galanis who was stationed just outside the entrance 18 19 to the Patriots locker room who said it was routine 19 it conducted the testing; is that correct? A. That is correct. 20 for McNally to walk to the field with the game balls 20

21

22

23

24

25

correct?

21

22

23

24

25

unaccompanied, correct?

**Q.** And you rejected their interviews with you,

correct? You rejected that testimony as being

A. Correct.

inaccurate?

Q. Okay. But you did not interview

Commissioner Goodell in connection with that,

A. To my knowledge, as I sit here, I don't think

Commissioner Goodell had anything to do with the

# Case 1:15-cy-05916-RMR-1CF Document 48-230 Filed 08/04/15 Page 82 of 172 Page 312

- 1 testing.
- 2 Q. Did you interview Jeff Pash in connection
- 3 with that, your co-lead investigator, whatever his
- 4 role was?
- 5 A. To my knowledge -- you are asking me to do
- 6 with the testing?
- **7 Q.** Yes.
- 8 A. To my knowledge, Mr. Pash had nothing to do
- 9 with the testing.
- **10 Q.** Did you interview Mr. Vincent?
- 11 A. Yes. I interviewed all the people who were
- 12 there at the game.
- **Q.** Did you ask them to give you e-mails and text
- 14 messages, Mr. Vincent or the other NFL officials who
- 15 were there? Were they asked to give you e-mails and
- **16** text messages concerning the game-day activities on
- 17 what happened with the Colts?
- 18 A. I do not think so.
- **19 Q.** Okay. Did you ask anyone else except
- 20 Mr. Brady, Mr. McNally and Mr. Jastremski and
- 21 Mr. Schoenfeld to give you text messages or e-mails
- 22 in connection with your investigation?
- 23 A. I asked people at the Patriots and I'm not --
- 24 I'm not sure in terms of anybody else. I'm just not
- 25 sure as I sit here. But we can find out. I want

### DIRECT/WELLS/KESSLERPage 311

- 1 you to have the answer.
- **Q.** Did you ask anyone at the NFL for any of --
- 3 anyone who is employed by the NFL for e-mails or
- 4 text messages to your knowledge in connection with
- **5** this investigation?
- 6 A. I do not recall. But again, we can find out.
- 7 I will get you an answer for the record.
- **Q.** With respect to the request made to
- 9 Mr. Brady --
- 10 A. Yes, sir.
- 11 Q. -- did you ever, yourself, determine whether
- 12 you had the authority under any applicable policy to
- 13 ask Mr. Brady to require him to turn over his
- 14 e-mails or text messages? Did you ever look
- 15 independently into that issue?
- 16 A. I can tell you when I did the Miami Dolphins
- 17 investigation and I sat with either Ms. McPhee or
- 18 Ned Ehrlich, I asked people for their phones,
- 19 players, and they gave me the phones.
- **Q.** When you did the Miami Dolphins
- 21 investigation, was that under the policy that you
- 22 cited here on competitive integrity?
- 23 A. No.
- **Q.** Okay. And had you ever done an investigation
- **25** previously under the privilege integrity policy?

- 1 A. No, sir.
- **Q.** Okay. And would you agree with me that if
- 3 that policy was not directed to players, that policy
- 4 might not then impose any duties on players to
- 5 cooperate or not? You haven't looked into that,
- 6 right?
- 7 A. I haven't looked into it, but what I will say
- 8 is Mr. Brady's agents at no time told me that was an
- 9 issue, because if they had told me it was an issue,
- 10 we would have had a discussion. Maybe I would have
- 11 called Ms. McPhee. Maybe I would have called
- 12 Mr. Ehrlich.
- 13 I would have called somebody because I will
- 14 tell you I did not -- I wanted -- I did not want
- 15 Mr. Brady in a position where I would have to write
- 16 that he didn't cooperate or when I interviewed
- 17 him -- everybody said the guy was a great guy.
- 18 Everybody said he was a great guy, great reputation.
- 19 And I wanted to interview him without this
- 20 cloud hanging over him, okay? And that's why I told
- 21 Mr. Yee, I will take your word. You do the search
- 22 and I will take your word.
- **Q.** Now, let me ask you this. When were you
- 24 retained in connection with this matter? Do you
- 25 remember when?

1

### DIRECT/WELLS/KESSLERPage 313

- A. Yeah, no, I know I was an hour away from
- 2 surgery. January 21st, they called me. I was ready
- 3 to get my knee operated on at 7:00 and they called
- 4 me, like, at 5:00 or 5:30.
- **Q.** Did you not contact Mr. Brady or his
- 6 representatives to make any kind of requests for
- 7 e-mails or phone records or text messages until
- **8** February 28; is that correct?
- 9 A. That is correct. But I had given -- my
- 10 recollection, we had given it earlier to
- 11 Mr. Goldberg and then what Mr. Goldberg said --
- 12 Mr. Goldberg was --
- **13 Q.** Who is he?
- 14 A. Mr. Goldberg is a lawyer for the Patriots who
- 15 sat in on every interview, including Mr. Brady's.
- 16 So I'm dealing with Mr. Goldberg. At some point,
- 17 Mr. Goldberg tells me -- and I think I have given
- 18 Mr. Goldberg at that time a written request for
- 19 Mr. Brady's phone stuff.
- 20 Mr. Goldberg says the agents are going to
- 21 deal with it. You got to deal with his agents
- 22 directly. He says, I'm out of it now. So then we
- 23 write -- we take what we had already given
- 24 Mr. Goldberg and we write it to Mr. Yee. So that's
- 25 what happened.

- 1 Q. At no time did Mr. Goldberg ever tell you he
- 2 represented Tom Brady, did he?
- 3 A. Mr. Goldberg, if you talked to him, said he
- 4 represented everybody at the Patriots. That was how
- 5 he held himself out. But then he made himself
- 6 clear, with respect to Mr. Brady, I was going to
- 7 have to deal with the agents. I mean, he made that
- 8 clear
- 9 Q. I just have some final questions for you,
- 10 Mr. Wells. Would you agree that there were no
- 11 established protocols that you found in the League
- 12 to collect all the data that you would have liked to
- 13 have to determine whether or not a drop in ball
- 14 pressure was due to natural forces or some
- 15 tampering? There was just no protocols to collect
- 16 that, right?
- 17 A. I told you I agree. What I found in
- 18 interviewing referees and just witnesses in general
- 19 is that there was no appreciation for the Ideal Gas
- 20 Law and the possible impact that that might have.
- 21 And so people didn't appreciate that if you measured
- 22 a ball in a hot locker room and then took it out to
- 23 a cold field, you have automatic drop.
- 24 Now, the Patriots had figured that out, okay.
- 25 Mr. Jastremski had figured that out because he talks

### DIRECT/WELLS/KESSLER Page 315

- 1 about it in one of his texts. But again, that
- 2 didn't have anything to do in terms of procedures.
- 3 You are correct, there were no procedures.
- 4 Q. Okay. And finally, there are many times when
- 5 the Exponent report indicates that they've heard
- 6 from Paul, Weiss that certain factors are unknown or
- 7 uncertain, correct?
- 8 A. Sure, yes.
- 9 **Q.** And you would agree with me the fact that
- 10 there were these unknowns is because there weren't
- 11 these procedures to provide that information?
- 12 Otherwise they would be certain, right?
- 13 A. That is -- that is absolutely correct. I
- 14 mean, sometimes people break procedures, but you are
- 15 right, I would have had data.
- 16 Look, all of the things you said in terms of
- 17 your opening statement that we had unknowns, we were
- 18 aware of and we considered and we recognized that
- 19 one of the options was maybe you had so many
- 20 unknowns that you would have to say it's
- 21 inconclusive.
- 22 But we reached a different ruling and we
- 23 reached it in great part because those gauges did
- 24 work. See, look, the biggest thing when we started,
- 25 we wanted to know did the gauges work? When I say

- 1 did the gauges work, that so-called logo gauge that 2 reads .3 to .4, it was tested hundreds of times.
- 3 So you really know where it was. It wasn't
- 4 an erratic gauge. If you had a gauge that some days
- 5 read .7 over and other days it read .2 and other
- 6 days it read below, then you couldn't base anything
- 7 because that gauge was bouncing around.
- 8 But because the logo gauge was consistently
- 9 .3 to .4 over, and because the non-logo gauge was
- 10 almost perfectly calibrated, we knew we had good
- 11 gauges and that gave us the ability to do scientific
- 12 analysis and make conclusions that we felt were
- 13 reliable.
- 14 And one of the things we say in the report is
- 15 that the scientific analysis does not prove with,
- 16 quote, "absolute certainty" whether there was
- tampering or not tampering. But the data ultimately 17
- 18 was sufficiently reliable that we felt comfortable
- 19 when we looked at the evidence in its totality.
- 20 And the totality of the evidence involved not
- 21 just the science. It involved Jim McNally calling
- 22 himself the deflator and saying he had not gone to
- 23 ESPN yet. And it involved the text message where
- 24 Mr. Jastremski says he talked to Mr. Brady. And 25

## DIRECT/WELLS/KESSLER Page 317

1 stress getting them done.

If those text messages did not exist, and all

there's a reference to McNally must have a lot of

- 3 we had was a break in protocol and he goes into the
- 4 bathroom and just the science, the result might very
- 5 well be totally different. But when you combine the
- 6 break in protocol, going into the bathroom, the text
- 7 messages and the science, we felt comfortable
- 8 reaching a judgment.
- 9 It was a totality of all of the evidence
- 10 analysis that gave us comfort in deciding it was
- 11 more probable than not. We looked at all of the
- 12 evidence together. And that's what juries do all
- 13 the time.

2

- 14 In most jury cases, each side will have an
- 15 expert. One expert will say X happened to a
- 16 reasonable degree of scientific certainty. The
- 17 other side will say, well, my expert says Y happened
- 18 to a reasonable degree of scientific certainty.
- 19 The jurors sit there and they make a judgment 20 about not just the science, but the whole case. And
- 21 the judge gives them the discretion as long as it's
- 22 not so unreliable that you can't make decisions.
- 23 And that's what we did in this case. And that's why
- 24 we reached the conclusions that we did and we think
- 25 the conclusions are right and we think they are

#### Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 84 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 84 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 84 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 84 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 84 of 172 Case 1:15-cy-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 84 of 172 Case 1:15-cy-05916-RMB-1CF Page 84 of 172 Case 1:15-cy 1 reasonable. tested that ball and he tested it with two gauges. 2 2 MR. LEVY: Mr. Kessler, do you have anymore And it's not in the report because we didn't 3 questions? 3 think -- at that point in time, the intercepted ball 4 because nobody knew whether or not the Colts might MR. KESSLER: Just a couple more. 4 5 THE WITNESS: I'm sorry. 5 have tampered with it or something, we didn't use 6 that as part of the analysis. **Q.** Mr. Wells, did you make the decision not to 6 7 use the data from the post-game measurements? 7 Later on after the fact, I don't know if it 8 A. Well, we actually made -- we actually write 8 was the Patriots or somebody said, well, you could 9 in the report that, and there is a footnote. I just have used that ball as data that maybe the gauges 9 10 forget what page it is. were off, what have you. But the fact is that 10 **Q.** 73? 11 11 Riveron told us he tested it three times. I forget 12 A. Okay. That data we decided not to use. And 12 what the numbers are. And he used both of the 13 the reason we decided not to use it is because we 13 gauges. 14 didn't know where the four Colts' balls came from. 14 **Q.** That would be in the interview reports if you So they measured four Colts' balls at halftime. 15 15 kept the interview reports? They then bring balls back in at the end of the 16 16 A. That's my recollection. 17 game. 17 Q. But you took notes of all that, either you or 18 They measure four bolts balls. They have no 18 your staff, right? 19 idea if the four Colts' balls they measured at the 19 A. Yeah. 20 20 end of the game were the four Colts' balls they **Q.** They exist, those interview notes? 21 measured at halftime. So that was the Colts. 21 A. Yes, sir. 22 22 With respect to the Patriots' balls, when **Q.** Okay. And they contain a lot of information 23 they found out at halftime that the Patriots' balls 23 that's not in this report, correct? 24 were all under regulation, they pumped the air into 24 A. Oh, yeah, thousands of pages. 25 25 them, but he didn't keep any record of how much air Q. Okay. Have you ever shared any of those

### DIRECT/WELLS/KESSLERPage 319

he put in. So we didn't have any records if the 1

balls were 13.5 or what. So when the balls came

3 back in, we didn't have any point to start at.

Q. Didn't your report say they pumped them to

5 13?

4

8

6 A. I'm not sure. My recollection is they -- it 7 wasn't an exact number, but if that's what the

report says, I will go with the report.

9 Q. I think your report says, if someone could 10 check for me, I think the report says 13. So let's 11 assume that's what it says.

12 If they all were pumped to 13, if that's what the official said, couldn't you use the four 13

14 Patriots' balls to test, then based on what had

15 happened versus the 13, because they weren't going

16 to be tampered with during that second half, right?

17 They could have been used?

18 A. And you may have, that's correct, if that's 19 what the report says. I will go with whatever the 20 report says.

21 Q. Okay. And then secondarily, did you make the

22 decision not to use the 12th ball that was tested

23 three times by the same official with the same

24 gauge?

No, it wasn't the same gauge. Al Riveron

CROSS/WELLS/NASH Page 321

1 interview reports with counsel for the NFL --

2 A. No. sir.

Q. -- in this matter --3

4 A. No, sir.

**Q.** -- to prepare for this? 5

6 A. Not a bit.

7 Q. It wasn't just shared with counsel for the

8 NFL today in front of me as I was looking across as

9 they were preparing to do examinations? None of

10 your interview notes have ever been shared with any

11 counsel for the NFL?

12 A. No, sir.

13 **Q.** Anyway, those reports exist, correct?

14 A. I said that.

15 **Q.** And you know that it's been ruled that we

16 can't get access to those reports in this case?

A. I understand that.

18 MR. KESSLER: I don't have any further

19 questions at this point, especially since I am sure

20 that I am bordering on the end of the time that you

21 have given us.

22 MR. LEVY: We are going to continue to be

23 flexible. Mr. Nash?

24 MR. NASH: Yes.

CROSS-EXAMINATION BY 25

17

1 MR. NASH:

5

8

- 2 Q. Mr. Wells, you were asked about your role and
- 3 your independence. And you gave some answers and I
- 4 just want to ask you a few questions about that.
  - First of all, what is your background in
- 6 conducting investigations like the one that you were
- 7 retained to conduct here?
  - A. Well, within the sports area, I've done four
- 9 investigations. I have done investigations for the
- 10 NFL with the Miami Dolphins. I did this
- 11 investigation with Deflategate.
- 12 I did the investigation for the NBA Players
- 13 Association with respect to the practices of former
- 14 **Executive Director Billy Hunter. I did the**
- 15 investigation for the University of Syracuse Board
- 16 of Trustees with respect to whether Assistant
- 17 Basketball Coach Bernie Fine, their allegations of
- 18 sexual misconduct. So those are the big four in
- 19 terms of sports areas.
- 20 **Q.** And outside the sports area?
- 21 A. I have been involved in other investigations
- 22 for private entities.
- 23 **Q.** And what is your view of your role when you
- 24 are retained in these cases to be an independent
- 25 investigator?

### CROSS/WELLS/NASH Page 323

- 1 A. It is to do the best job that I can, to
- 2 collect the relevant facts, examine the facts and
- 3 then render a personal opinion as to how I see the
- 4 facts. And I will say one thing because Mr. Kessler
- 5 suggested somewhere is there a conflict between my
- 6 duty to zealously advocate, represent the client.
- 7 When I'm hired in the capacity of an
- 8 independent investigator, my very job in terms of
- 9 the representation I'm supposed to do zealously is
- 10 to be independent and look at the facts and give a
- 11 candid, objective opinion. That's what I'm supposed
- 12 to do under the ethics rules.
- 13 Q. And is it fair to say that's what you did in
- 14 this matter?
- 15 A. Yes, sir.
- 16 **Q.** Is it correct that you were not given any
- 17 instructions as to reach any particular conclusion?
- 18 A. None at all.
- 19 Q. Would you have undertaken this role as the
- 20 investigator if that were the case?
- 21 A. I would not. And if anybody tried to
- 22 interfere with it, I would quit.
- 23 Q. Now, you were asked some questions, I think,
- 24 it came when you were being asked about your finding
- 25 about the logo versus the non-logo gauge.

- 1 A. Yes, sir.
- 2 **Q.** And I think you referred to yourself as the
- 3 finder of fact and the judge. Can you explain what
- 4 you meant by that when you say "judge" or you made a
- 5 rulina.
- 6 A. Yeah. Look, my job was to investigate the
- 7 facts and then render a personal opinion. That's
- 8 what it is. It is an opinion. When a jury renders
- a verdict, it's their opinion. My job, and it's my 9
- 10 team. This decision, the rulings in the report,
- 11 though they call it the Wells report, were unanimous
- 12 for myself and Mr. Reisner and Brad Karp, the
- 13 partners on the team.
- 14 This was our collective judgment and our
- 15 personal opinion based on the standard of proof.
- 16 And the standard of proof in an NFL investigation of
- 17 this kind is the preponderance of the evidence. I
- 18 mean, I have caught criticism because I used the
- 19 words "more probable than not." And people act
- 20 like, is that wishy-washy?
- 21 It's not wishy-washy. That's the standard of
- 22 proof that applies to most civil cases in the United
- 23 States. And the NFL has made a decision to adopt
- 24 that standard. In terms of the levels of proof,
- 25 there are three levels. The highest is beyond a

### CROSS/WELLS/NASH Page 325

And when I wrote my conclusions in terms of

- 1 reasonable doubt. The middle one is clear and
- 2 convincing, which applies in fraud cases.
- 3 But the predominant standard in most civil
- 4 jury trials in the United States is preponderance of
- 5 the evidence, which means more probable than not.
- 6
- "more probable than not," I did it very 7
- 8 purposefully, because I did not want any readers to
- 9 think that I had perhaps made a finding of liability
- 10 beyond a reasonable doubt or by clear and convincing 11 evidence.
- 12 I wanted people to know this was the standard
- 13 under the NFL rules and that's the standard I was
- 14 making my ruling on. So I was doing it so people
- 15 wouldn't get confused and think I had used some
- 16 higher, higher standard.
- 17 Q. You were asked about your interview
- practices. You interviewed a lot of witnesses in 18
- 19 this matter?
- 20 A. Yes.
- 21 Q. Other than what's in the report, did you
- 22 interview any witnesses who told that you Mr. Brady
- 23 was not aware or did not in any way know about the
- 24 activities of Mr. Jastremski and Mr. McNally, that
- 25 you didn't include in the report?

11

17

24

25

- A. No. I mean, just, I want to be clear. Look,
   Mr. Brady denied any involvement. Mr. Jastremski
- 3 and Mr. McNally denied any involvement or that
- 4 anything happened, including with respect to their
- 5 knowledge of Mr. Brady.
- 6 Coach Belichick said he had talked to
- 7 Mr. Brady and that Mr. Brady had denied doing
- 8 anything, and I think Coach Belichick said he
- 9 believed him. I think those are the only witnesses
- 10 who said something about Mr. Brady. And that's all
- 11 in the report; I believe so.
- **Q.** Now, getting back again to your role as the
- 13 finder of fact, was it your role and your
- 14 understanding to make any findings or conclusions
- 15 about what discipline should be imposed on Mr. Brady
- **16** or whether he engaged in conduct detrimental?
- 17 A. No, sir.
- **Q.** You have been asked some questions about
- 19 Exponent, and I want to -- you were here when
- 20 Dean Snyder testified earlier, right?
- 21 A. Yes.
- **Q.** If you could go to the Exponent report, IX,
- **23** page IX, the Executive Summary.
- 24 A. Okay.

5

**Q.** And at the bottom of that page, there is a

### CROSS/WELLS/NASH Page 327

- 1 paragraph that, there is a "1" and a "2." Can you
- 2 explain your understanding of what -- how Exponent
- 3 approached this assignment?
- 4 A. Yes. The last paragraph on page Roman
  - numeral IX reads, "As noted, Paul, Weiss retained
- 6 Exponent to provide scientific and analytical
- 7 support for its investigation and help determine
- 8 based on the available data whether it is likely
- 9 that there had or had not been tampering with the
- 10 Patriots footballs. Specifically, Exponent
- 11 conducted a science- and engineering-based
- 12 investigation to, (1), analyze the data collected at
- 13 halftime, particularly to determine whether the
- 14 difference in the decrease in pressure exhibited by
- 15 the footballs of the two teams was statistically
- 16 significant, and (2), identify and evaluate any
- 17 physical or environmental factors present on the day
- 18 of the AFC Championship Game that might account for
- 19 the difference in the magnitude of the reduction in
- 20 air pressure between the footballs of the two teams
- 21 measured at halftime."
- 22 And what that paragraph says is that we
- $23\,\,$  proceeded in a sequential fashion. The first issue
- 24 that was asked was whether or not there was a
- 25 statistically significant difference between this

- 1 delta that we recognized between the Patriots' balls
- 2 and the Colts' balls, because if it was just by
- 3 chance, then we didn't need to go out and do all of
- 4 these experiments to figure out what might have
  - caused a difference, because it was just chance.
- 6 And as to what they looked at first was the
- 7 question of statistical significance, they
- 8 determined that it was. And then they moved to
- 9 trying to figure out whether it could be explained
- 10 by other factors.
  - So we did all these experiments out in
- 12 Arizona pounding the football, seeing if rubbing
- 13 caused problems, seeing how you measure the ball
- 14 sticking a needle in it a bunch of times, could that
- 15 let the air out. And then they did what they called
- 16 the timing -- what's the word?
  - Q. Transient?
- 18 A. The transient test. And what they did, they
- 19 developed a model to try to figure out how timing
- 20 impacts the measurements. So they built, you know,
- 21 they actually developed a model and then after they
- 22 developed that model, then they looked at game-day
- 23 simulations.
  - So, you know, this issue of timing that
  - Professor Snyder talked about, I know he said it

CROSS/WELLS/NASH Page 329

- 1 wasn't in the model. I don't know whether that's
- 2 right or wrong. The experts can testify to that.
- 3 But the way we approached it was first statistical
- 4 significance and then we did the tertiary studies
- 5 and we did the game-day stimulations, in addition to
- 6 all these other studies, because the Patriots --
- 7 Patriots had all sorts of ideas what might cause
- 8 this.
- 9 Okay, Mr. Goldberg was writing me e-mails.
- 10 You know, maybe it was the pounding. Maybe it was
- 11 the wetness. Everything we got from Mr. Goldberg we
- 12 sent out to Exponent and to Mr. Marlow, okay. If
- 13 they raised something, we tried to go down that
- 14 rabbit hole.
- 15 We spent a ton of money, a ton of money
- 16 trying to understand what might have caused it,
- 17 other than tampering. And only the experts ruled
- 18 that they couldn't get the numbers to match. And
- 19 they didn't rule that the science absolutely shows
- 20 there was tampering.
- 21 They said here's the data. Now, we as the
- 22 fact finder, Mr. Reisner and I, really, and Mr. Karp
- 23 had to make a decision. Okay, but we looked at
- 24 everything as a whole, which is how jurors make
- 25 decisions every day.

24

- 1 Q. Did you consider -- you heard something about
- 2 the AEI report. Are you familiar with that?
- 3 A. Yes.

5

- **4 Q.** And I think was it Dr. MacKinnon's report?
  - A. Look. To my knowledge when the report first
- 6 came out, the New York Times and the guy that writes
- 7 the 538 column was one of the most respected
- 8 statisticians in the world. He wrote a column
- 9 praising the science in this report.
- 10 And he went out and interviewed other
- 11 scientists and they praised the science done by
- 12 Exponent and Dr. Marlow. Following that, the
- 13 Patriots issued a rebuttal that contained a
- 14 three-page letter from a Dr. MacKinnon who is a
- 15 Nobel Peace Prize winner in chemistry.
- 16 It's not a physicist or a statistician. And
- 17 he took issue with some of the findings in the
- 18 report. And then an entity called AEI issued a
- 19 report in an op-ed in the New York Times and then
- 20 Dr. Snyder had his PowerPoint that we got last week.
- 21 But with respect to all three of those
- 22 reports, I went to Dr. Marlow and I went to the
- 23 people at Exponent and I told them I wanted them to
- 24 review each of those reports criticizing their work.
- 25 I wanted to know did those reports change their

CROSS/WELLS/NASH Page 331

- 1 findings and conclusions in any way?
- 2 Did it undermine their report? Did it make
- 3 them feel that they got it wrong? And both
- 4 Dr. Marlow and the people at Exponent told me they
- 5 reviewed each of those reports, that each of those
- 6 reports were flawed and failed to show an
- 7 understanding of what they had done and that their
- 8 conclusions had not changed in any way, shape or
- 9 form.
- 10 And that's what I did and that's what -- and
- 11 they are going to testify here so Mr. Kessler can
- 12 hear it and question them.
- **Q.** I just want to ask you a few questions about
- 14 the requests that you and your team made to
- **15** Mr. Brady for texts and phone records.
- 16 A. Sure.
- 17 Q. And I think if I could get you to look at the
- 18 binder, let me start with Exhibit -- it's NFL
- **19** Exhibit 61.
- 20 A. Okay.
- **Q.** Why don't you just tell us what this is. Is
- 22 this the request that was made to Mr. Brady's
- 23 counsel?
- 24 A. Yes, okay. In fact, it says, the first
- 25 sentence says, to Steve, "In advance of our upcoming

- 1 review of Tom Brady, we wanted to make sure you are
- 2 aware of our prior requests communicated through the
- 3 Patriots for Tom's relevant documents and
- 4 communications."
- 5 So that e-mail to the agent begins by saying,
- 6 We had previously asked the Patriots for the
- 7 materials. Now, as I said, my recollection is the
- 8 Patriots later came back, once the Patriots -- once
- $\boldsymbol{9}$   $\,$  the agents were involved, and said to us, you got to
- 10 go through the agents.
  - But this confirms my recollection that we
- 12 went, we started with the Patriots. And what we
- 13 then did was basically redraft what we had sent to
- 14 Mr. Goldberg. And so that letter sets forth and
- 15 it's dated February 28, 2015, what we wanted.
- 16 We wanted two buckets of information. We
- 17 wanted him to take the phone, look at the text
- 18 messages, e-mails, run the search terms that we set
- 19 forth and give us any communications with anybody
- 20 about deflation or inflation. So if Mr. Brady had
- 21 talked to an assistant coach or talked to the
- 22 second-team quarterback about these issues, we would
- 23 get that material.
  - We then asked him for all communications
- 25 regardless of subject matter, I think, between

CROSS/WELLS/NASH Page 333

- 1 Mr. Jastremski and McNally, regardless of -- and
- 2 Schoenfeld, regardless of the search terms. So we
- 3 wanted two buckets of information. And I know, I
- 4 didn't get -- okay, I will stop.
- **Q.** Yeah. So why don't you turn to the next
- **6** Exhibit 70, because I think I can represent if you
- 7 go to the third page of that exhibit, at the bottom,
- 8 it's 001584.
- **9** And there is an e-mail to you from Donald Yee
- 10 who I believe is Mr. Brady's agent. And there is a
- 11 reference to, I think, Exhibit 69, the request that
- 12 was made on February 28th; is that correct?
- 13 A. This is page 1584?
- **14 Q.** Yes, page 1584, you will see at the bottom
- 15 there is an e-mail.
- 16 A. Yeah. Now, this e-mail is from Mr. Yee to
- 17 me. It is dated March 2nd. It says, "Dear
- 18 Mr. Wells, nice to meet you."
- 19 Then he says, "On Saturday, February 28th,
- 20 Mr. Burns at your office sent an e-mail to Mr. Dubin
- 21 requesting that we, on behalf of our client, request
- 22 a search of his text and e-mail communications dated
- 23 from September 1, 2014 to present. We have
- 24 considered this request. However, we respectfully
- 25 decline."

I want to say that's -- there is no statement as to why they are declining. They give us no information. They say, "We decline."

1

2

3

16

17

18

19

20

21

22

23

24

25

3

4

5

6

7

8

9

10

11

12

17

18

19

20

21

22

23

24

4 Now, the next paragraph is important because 5 it's something Mr. Kessler said. The next paragraph 6 reads, "On another note, we understand that you 7 would like to speak with our client in person about 8 the past season's AFC Championship Game. Prior to 9 confirming a time and date for such a discussion, we 10 must ask with all due respect what is the precise 11 basis for this proposed discussion? In our role as 12 NFLPA certified contract advisors, we are obligated 13 by the NFLPA agent regulations to be sensitive to 14 collective bargaining issues, particularly if those 15 issues may implicate player discipline matters."

So that's what they asked me. They didn't ask me at any time about authority for the phone. They had already turned me down in the prior paragraph about the phone information. They were asking me did I even have any right to talk to Mr. Brady? And they wanted me to give -- to respond to that.

And I sent them an e-mail telling them why I wanted to talk to him. But there was never any discussion directed to me or anybody on my team

CROSS/WELLS/NASH Page 335

about not giving us the phone because of someconcerns about the Union.

In fact, to my recollection, you know, I know the Union was not permitted even to attend the interview, whereas they had Mr. Ned Ehrlich from the NFLPA was there at Foxborough that day. And we interviewed the kicker Gostkowski and Mr. Ehrlich did that interview, but Mr. Brady wouldn't let the Union even sit in on his interview.

**Q.** So I notice in Exhibit 70, the response you received about the request for Mr. Burns is one line. It says, "We have considered this request.

**13** However, we respectfully decline."

14 A. Right.

Q. Did Mr. Brady or his agents give you anyother reason for that, for not giving you the texts?

A. No, at no time. Then what happens if you go, stay with the e-mail chain, so that's March 2nd.

Then March 3rd, I write back, and I respond to the request why I think I want to -- why I want to interview him.

And then I say, "Finally, we encourage you to reconsider your decision to decline our request for relevant e-mails, text messages and other material.

Our request is narrowly tailored to the subject of

our investigation and we would rely on you to
perform the requested searches and produce only
responsive material. We are hopeful that you will
reconsider our request."

5 So they have turned me down. I have now the
6 next day I have written back and I said please
7 reconsider. And then when they came to the
8 interview on March 6th, I asked them had they
9 reconsidered and they said, "We respectfully
10 decline." And they did not give me any reason.

And then I repeated the whole request in front of Mr. Brady, because I did not want Mr. Brady to be in a spot where later on he might say he didn't understand what we were asking for.

Q. When you said you repeated it, you aretalking about the March 6th interview?

A. The request what I asked for, I made clear I didn't want to take access to your phone. Mr. Yee can do it. I did not, as Mr. Kessler said -- I want to be clear -- I did not tell Mr. Brady at any time that he would be subject to punishment for not giving -- not turning over the documents. I did not say anything like that.

Q. Did Mr. Brady or his representatives at anytime tell you that they couldn't give you any of the

CROSS/WELLS/NASH Page 337

1 texts because the phone had been destroyed?

2 A. No statements of that nature were made in any 3 respect.

Q. If you would look at NFL Exhibit 96, this is
a June 18, 2015 letter sent to Commissioner Goodell
by Mr. Yee. I just want to draw your attention. In
this letter, they talk about information that was
now being provided regarding Mr. Brady's phone.
And it says in the second paragraph, "Please
note that in producing the cell phone and e-mail

information, we have followed, in fact, we have gone
further than the specific requests set forth in
Wells's original electronic data request of February
28th made to us."

Do you agree with that statement, Mr. Wells?

A. Well, I know, it is my understanding, I want to qualify, I haven't studied this, but it is my understanding that they didn't do any searches for the text messages for people other than Jastremski, Schoenfeld and McNally. So they didn't do that first big bucket I wanted that would have touched all people in terms of the search terms.

And in terms of the text messages that they produced, to my understanding, and I didn't look through every page because the thing is real thick,

15

16

17

18

19

20

21

22

- 1 like, 1,500 pages or something, there is no text
  - message -- there's not one content. When I say a
- 3 text message, I mean what did somebody say?
- 4 They have phone bills that say on X date
  - there was a text message, but there is no content.
- 6 So that's like looking at a running log that said
- 7 you sent an e-mail but you don't have the content.
- 8 So I was looking for the content.
- 9 Though, if Mr. Yee had come in and explained
- 10 it to me -- look, I was trying to work with them.
- 11 And so if he had explained, you know, we threw the
- 12 phones away or whatever, you know, we would have
- 13 talked about it. I did not want him in the position
- of not cooperating. I didn't want it for him. I 14
- 15 didn't want it for me.

5

- 16 Not only did it hurt him in terms of how we
- 17 evaluated his credibility, but it put us in a hell
- 18 of a spot because you have a person with this
- 19 exemplary record and has done all these good things
- 20 that people are saying, and yet they are conducting
- 21 themselves in a fashion that suggests they are
- 22 hiding something and may be guilty and not being
- 23 forthcoming.
  - So it was really hard to give them credit for
- 25 the good stuff when he's basically looking you in
  - CROSS/WELLS/NASH Page 339
- 1 the face and saying, I'm not going to give you my
- 2 phone.

24

- 3 But like I said, it not only hurt Mr. Brady,
- 4 it hurt the investigation because it put us in a
- position we didn't want to be in because we wanted 5
- to be able to listen to him and evaluate his 6
- credibility without this cloud. That's why I kept 7
- 8 saying, you know, reconsider. Give me -- I will
- 9 take your word for it.
- 10 **Q.** The only other question I had is: You were
- 11 asked about whether you had requested other, either
- 12 e-mails or texts or other documents from anyone at
- 13 the NFL; is it correct that you were provided with a
- 14 number of documents from the NFL for your
- 15 investigation?
- 16 A. Yeah, yeah, I was provided a huge number.
- 17 And I just don't recollect as I sit here if we went
- 18 through anybody's e-mails because the question
- 19 Mr. Kessler asked me about was in terms of bias and
- 20 with the testing.
- 21 And what I found in terms of the testing, I
- 22 didn't see any bias, so I didn't see any need to
- 23 have to go back and look at e-mails for something I
- 24 didn't see. If I had seen something in terms of
- 25 bias being exhibited during the testing at halftime,

- I wouldn't have had any hesitation to go back and 1
- 2 look for any e-mails, but I didn't see it.
- 3 The problem with the testing that
- 4 Mr. Kessler, you know, rightly pointed out, it
- 5 doesn't have to do with bias. I had no records.
- People didn't record things at the front end. 6
- 7 Mr. Anderson, he wasn't biased against anybody, but
- 8 he didn't write things down. That was real.
- 9 And, you know, there were issues in terms of
- 10 record-keeping that I didn't have. But I didn't
- 11 have record-keeping because of bias or somebody I
- 12 felt was out to get the Patriots. The problem was,
- 13 as he said, Mr. Kessler said, there weren't
- 14 procedures.
- 15 MR. LEVY: Mr. Nash, do you have any
- 16 questions?
- 17 MR. NASH: No, I don't.
- 18 MR. KESSLER: I have a few.
- 19 REDIRECT EXAMINATION BY
- MR. KESSLER: 20
- 21 **Q.** Mr. Wells, you had an interview with the
- 22 press after your report came out, correct?
- 23 A. Yes, sir.
- **Q.** And according to the transcript that's 24
- 25 published, you said the following, Mr. Brady, the

### REDIRECT/WELLS/KESSLERPage 341

- 1 report set forth, he came to the interview. "He
- 2 answered every question I put to him. He did not
- 3 refuse to answer any questions in terms of the back
- 4 and forth between Mr. Brady and my team. He was
- 5 totally cooperative."
- 6 Did you make those statements?
- 7 A. Absolutely, absolutely.
- 8 **Q.** And those are truthful statements, correct?
- 9 A. Yes, sir.
- 10 **Q.** Now, with respect to the issue of producing
- 11 e-mails or texts, you asked Mr. Gostkowski to
- produce those things, correct? 12
- 13 A. We did.
- 14 **Q.** Again, did he produce them?
- 15 A. No, because we had decided that he wasn't
- 16 that important a witness, and so we backed off. So
- 17 what happened, I didn't resend. I didn't press
- because he just wasn't that important a witness. 18
- 19 **Q.** But his first response was that he declined?
- 20 A. Correct, he declined after Mr. Brady
- 21 declined, but that is correct.
- Q. He also declined? 22
- 23 A. Correct.
- 24 Q. To your knowledge, has Mr. Gostkowski been
- 25 subject to any discipline for not cooperating with

	Case 1:15-cv-05916-RMB-JCF Document	<del>28-2</del>	30 Filed 08/04/15Page_90.of.1.72
	REDIRECT/WELLS/RESSLERPage 342		REDIRECT/WELLS/KESSLERPage 344
1	your request?	1	We have had this issue back and forth and we propose
2	A. To my knowledge, as I said, I did not press	2	that there not be confidentiality in this matter and
3	the issue.	3	the NFL said they wanted confidentiality and we
4	Q. Finally, you mentioned I think you had	4	agreed to something and it was there.
5	Exponent test all these things and it cost a ton of	5	I would like to propose on behalf of the
6	money or something like that?	6	Union that we can release this transcript of this
7	A. It's true.	7	today. I would like the NFL to think about that.
8	<b>Q.</b> How many millions was given to Exponent and	8	That's our proposal. Despite that, I'm not talking
9	to Dr. Marlow apart from what you were paid in this	9	about any of the underlying things, but at least the
10	case, do you know, roughly?	10	transcript.
11	A. Can I? Exponent was 600,000 and I'm not sure	11	I think there is a great public interest in
12	Marlow.	12	this and in the interest of transparency, that would
13	Q. An additional amount for Dr. Marlow?	13	be something that we would like to see done. So I
14	A. Yes, sir.	14	will submit my proposal for the NFL to consider as
15	MR. KESSLER: I don't have any further	15	to whether that's possible or not.
16	questions of you right now. Thank you.	16	MR. LEVY: Pending the agreement, the
17	MR. LEVY: Jeffrey, who is your next witness?	17	transcript is confidential.
18	MR. KESSLER: Let me confer. So here is the	18	MR. NASH: Yes.
19	issue in light of the timing and everything else,	19	MR. KESSLER: Well, we already have that
20	and I don't know what you want to do. You are going	20	agreement, which is why I have to make this
21	to call Exponent's people; is that correct?	21	proposal
22	MR. NASH: If you are done.	22	MR. NASH: Yes, we have that agreement.
23	MR. KESSLER: Well, here's the issue. Okay.	23	MR. KESSLER: in order to see if the NFL
24	If you weren't going to call any Exponent people,	24	would agree to that.
25	then I would proceed to probably call Dr. Marlow	25	MR. LEVY: Five minutes.
	REDIRECT/WELLS/KESSLERPage 343		DIRECT/CALIGIURI/REISNER Page 345
1	first as I said I would because	1	(Recess taken 5:54 p.m. to 6:04 p.m.)
2	MR. NASH: You can do that.	2	MR. REISNER: We call Dr. Robert Caligiuri.
3	MR. KESSLER: No, but I'm just saying, if you	3	ROBERT CALIGIURI, called as a
4	are going to call the Exponent people anyway, then	4	witness, having been first duly sworn by a Notary
5	in light of the time and the hour, I would be happy	5	Public of the State of New York, was examined and
6	to proceed if this would be suitable to the	6	testified as follows:
7	Commissioner, because it may save some time to have	7	DIRECT EXAMINATION BY
8	them present, the Exponent people, cross-examine	8	MR. REISNER:
9	them and then maybe I will conclude I don't have to	9	Q. Can you please state your name for the
10	call Dr. Marlow. In other words, I would only be	10	record.
11	calling him if I'm uncertain as to whether anybody	11	A. Robert D. Caligiuri, and I will spell it for
12	is going to testify for them.	12	you, C-A-L-I-G-I-U-R-I.
13	MR. NASH: That's fine.	13	Q. Dr. Caligiuri, by whom are you employed?
14	MR. LEVY: That's fine.	14	A. I am employed by Exponent, Incorporated.
15	MR. KESSLER: So why don't we proceed next	15	Q. What is your title there?
16	with your calling the Exponent people. We will do	16	A. I am a group vice president and principal
17	the cross-examination and then after that, I will	17	engineer. Group vice president is an administrative
18	let you know whether I feel it's still necessary to	18	role. I am responsible for the company's core
19	call Dr. Marlow or not at that point.	19	engineering practices.
20	MR. LEVY: Agreed. Five-minute break.	20	Q. What kind of company is Exponent?
21	MR. KESSLER: One other thing on the	21	A. Exponent is a scientific and engineering
22	record	22	consulting company that works for a wide variety of clients to solve their technical scientific
23	MR. LEVY: Is there anybody else?  MR. KESSLER: No, but one other thing on the	24	problems, particularly, very significant ones.
25	record, I would like the NFL to think about this:	25	<b>Q.</b> Where is your office located?
<u> </u>	7/2015 03:43:11 PM Page 342 to		•

- 1 A. Our corporate headquarters are in Menlo Park,
- 2 California.
- **Q.** And what kind of work does Exponent do?
- 4 A. Engineering work, scientific work, both in
- 5 the health arena, in the environmental arena,
- 6 solving problems, do some litigation support, yes,
- 7 all kinds of and types of engineering, problem
- 8 solving.
- **Q.** And do you have any particular expertise in
- 10 terms of your own scientific and engineering focus?
- 11 A. My focus is on mechanical and materials
- 12 engineering. And I bring those disciplines to
- 13 basically find out what happened to things, to
- 14 determine root cause analyses, looking at a wide
- 15 variety of problems and particularly in consumer
- 16 products and other areas trying to figure out what's
- 17 going on here and use my material and mechanical
- 18 expertise.
- **19 Q.** Can you very briefly describe your
- 20 educational background.
- 21 A. I have a Bachelor of Science degree in
- 22 mechanical engineering. I have a Master's and Ph.D.
- 23 of Material Science and Engineering from Stanford
- 24 University.
- **Q.** Were there other members of the Exponent team

## DIRECT/CALIGIURI/REISNER Page 347

- **1** who assisted you on this matter?
- 2 A. There were a lot of people that worked on it.
- **Q.** Can you just describe the principal members
- 4 of the team and their area of expertise.
- 5 A. Sure. It became very apparent after we
- 6 received the initial assignment from Paul, Weiss
- 7 that statistics is a part of this investigation. So
- 8 I went out and recruited Dr. Duane Steffey, who is a
- 9 Ph.D. statistician, who also was a professor of
- 10 statistics -- he's the director of our statistics
- 11 department -- and engaged him on that aspect of the
- 12 problem -- of the project.
- 13 I also reached out to Dr. John Pye. He is a
- 14 vice president of the firm and he's a Mechanical
- 15 Engineer Ph.D. from Stanford University. He's very
- 16 experimentally-oriented, does a lot of work for the
- 17 United States Government. And I engaged him to take
- 18 care of the experimental side of things.
- 19 Dr. Gabe Ganot is a Ph.D. material scientist
- 20 from Columbia University and I engaged him to do a
- 21 lot of different aspects of the project. Those are
- 22 the four key people on the project.
- **Q.** What was Dr. Marlow's role in connection with
- 24 Exponent 's work?
- 25 A. I think Mr. Wells said it pretty well here,

- 1 he was working with us helping us doing some of the
- 2 statistics analysis, reviewing our work,
- 3 contributing to it, pointing out things, helping us
- 4 plan the direction that we needed to go. He was
- 5 very much involved in the project.
- **Q.** At the outset of your work, what
- 7 instructions, if any, were you given by Mr. Wells
- 8 and the Paul, Weiss team about the role that
- **9** Exponent should play with respect to its work?
- 10 A. I think Mr. Wells said it pretty well, too.
- 11 He said we needed to consider ourselves
- 12 court-appointed experts, which brings a level of
- 13 independence. And I have actually served as that
- 14 before.
- 15 And at a very high level of independence and
- 16 viewing things from very, very objective -- so
- 17 objectivity and court-appointed independent expert,
- 18 were very much important to this investigation for
- 19 our role. It was also very clear that planning, the
- 20 methodology and the approach, was left to us, and
- 21 the scientific and technical aspect.
- **Q.** Can you describe the assignment that you
- 23 received from Paul, Weiss.
- 24 A. I think Mr. Wells did that pretty well, too.
- 25 If we go to basically the paragraph he read, we were

- 1 retained to provide scientific and analytic support
- 2 in their investigation to help them determine
- 3 whether or not, based on available data, there may
- 4 have been tampering of the footballs by the
- 5 Patriots, and based on that, to do two very large
- 6 pieces of investigation.
- 7 One was to analyze the halftime data and
- 8 determine it's statistical significance; and two, to
- 9 perform experiments and review and analyze the
- 10 potential factors, usage, environmental, physical,
- 11 that could influence any difference in the pressure
- 12 drops that were measured.
- **Q.** And can you describe in a little bit more
- 14 detail the analysis and testing performed by
- 15 Exponent.
- 16 A. The analysis, the statistical analysis?
- **Q.** Start with the statistical analysis.
- 18 A. We took a look at, very carefully, at all the
- 19 game-day halftime measurements that were made,
- 20 analyzed them, put them through statistical models
- 21 as has been discussed here already, and to determine
- 22 is there anything there that supported it? Was it
- 23 worth looking at more? We ran that through very,
- 24 very careful examination of the halftime data.
- 25 The second thing we did was to look at the

# Case 1:15-cv-05916-RMB-1CF Document 48-230 Filed 08/04/15 Page 92 of 172

- 1 gauges. The gauges that collected the data, was
  - there something wrong with them? Were they messed
- 3 up? Were they not reliable? That was a factor that
- 4 would influence the observations that we made.
- 5 The third thing we then did was do a whole
- 6 series of experiments to evaluate the effects of
- 7 ball usage, rapid insertion, repeated insertion of
- ban asage, rapid inscrition, repeated inscrition o
- 8 the needles into the balls, would they leak, all
- 9 sorts of things that people had actually mentioned
- 10 that could be contributing to the difference in the
- 11 pressure drops.

2

- **Q.** Can I just stop you there for a moment? And
- 13 you have a copy of your report in front of you?
- 14 A. Yeah.
- **15 Q.** Can you go to page XI, Roman XI of your
- 16 report. And number 6 on that page describes the
- 17 physical factors that were evaluated by Exponent?
- 18 A. Yes, it does.
- **19 Q.** And can you describe those, please.
- 20 A. Sure. The first one I mentioned is the
- 21 impact of gaming. Someone had mentioned, I believe,
- 22 in prior testimony that the Patriots' balls were
- 23 used more than the Colts' balls, unfortunately for
- 24 the Colts, I guess, in the first half. So was there
- 25 a factor being used more that caused the pressure

### DIRECT/CALIGIURI/REISNER Page 351

- 1 inside to go down more relative to the Colts.
- **Q.** And what did you do to test that?
- 3 A. Picture that made the rounds here of a
- 4 football being squished in a mechanical testing
- 5 machine. We took the football and we cycled it to
- 6 650 pounds to see if there was change or loss of
- 7 pressure in the ball.
- **Q.** The next thing was, "The impact of repeated
- 9 insertions of an inflation needle into the
- 10 football."
- **11** What did you do to test that?
- 12 A. Basically took a bunch of footballs and
- 13 inserted a needle inside of it, and many, many
- 14 times, to see is there leaking around the gland?
- 15 Was there a change in the pressure over time with
- 16 multiple, multiple, multiple insertions?
- 17 Q. And next, "The natural leak rate and
- **18** permeability of properly-functioning footballs."
- **19** What did you do to test that?
- 20 A. Basically we took footballs apart and
- 21 measured the permeability to various materials
- 22 inside the football to leakage of air.
- **Q.** And the other listed factors are additional
- 24 physical characters you tested, correct?
- 25 A. That's correct.

- 1 Q. What other testing did you perform as part of
- 2 your work?
- 3 A. The -- beyond these physical factors, there
- 4 were the environmental factors that we tested. And
- 5 those tests fell into two kind of buckets. One
- 6 bucket was the transient testing that's already been
- 7 referred to here. And transient testing means
- 8 monitoring. It is time-dependent, monitoring
- 9 something over time.
- 10 In this case, we took various footballs and
- 11 put a gauge in the football and took them from
- 12 various temperatures to various temperatures and
- 13 monitored the time, monitored the change in pressure
- 14 over time. That curve I believe that Mr. Snyder
- 15 showed was one of them that he generated to see what
- 16 is the effect of pressure on time, transient
- 17 analysis.
- 18 The second set of experiments that we did was
- 19 to try to, based on the review of the videotape, was
- 20 to try to simulate as best as we could with the
- 21 information we had to actually recreate the game
- 22 conditions on that game up to halftime.
- We put balls in 48 degrees Fahrenheit for a
- 24 couple of hours, first in the locker room and then
- 25 in the field, simulated field. We used different

- 1 rooms at different temperatures to do that, brought
- ${\bf 2} \quad \text{them out and measured their pressures and that sort}$
- 3 of stuff, tried to rub the footballs in the same way
- 4 trying to stimulate the actual conditions as best we
- 5 could.
- **Q.** With respect to the transient experiments, I
- 7 want to direct your attention to page 41 of your
- 8 report.
- 9 A. Yeah.
- **10 Q.** Can you describe what Figure 20 is.
- 11 A. Well, that's a set-up for the transient
- 12 experiment. This is an actual game-day football.
- 13 And you can see if you look at the top picture,
- 14 Figure 19 is the instrument we inserted inside the
- 15 football.
- 16 And you can see the Tygon tubing that comes
- 17 out to what is called a master gauge, which is a
- 18 gauge that measured pressure calibrated to a Natural
- 19 Institute of Standards standard of pressure to a
- 20 thousandth of a psi. That is how we measured
- 21 pressure.
- **Q.** Can you describe again the purpose of the
- 23 transient experiments?
- 24 A. It was to look at the effect of the
- 25 temperature, external temperature, on the pressure

- 1 inside a football as a function of time.
- 2 Q. Dr. Caligiuri, based on the testing that you
- 3 described, did you reach conclusions?
- 4 A. Yes.
- 5 Q. Can you describe the key conclusions that you
- 6 reached based on your work.
- 7 A. You said "testing." Are you including some
- 8 of the statistical work, too?
- 9 **Q.** If you could just describe the key
- 10 conclusions reached based on your work.
- 11 A. Sure. I think the conclusion section of the
- 12 report says it pretty well, starting on page 64.
- 13 The first thing we did as has been discussed here is
- 14 we did a statistical analysis on the halftime data.
- 15 And we looked at that data and we analyzed it
- 16 and it's been discussed here. And we concluded from
- 17 that based on the standard of five percent that the
- 18 halftime data had some statistical significance and
- 19 that it appears that the Patriots game balls
- 20 exhibited a greater pressure drop than the Colts'
- 21 balls, on average.
- 22 So the difference in magnitude between
- 23 pressure between the Patriots and the Colts as
- 24 measured at halftime was determined to be
- 25 statistically significant. So therefore, to us,

### DIRECT/CALIGIURI/REISNER Page 355

- 1 that warranted further investigation into what could 2
  - be causing it.

4

- 3 So the next thing we did was to look at the
  - gauges themselves and we tested the gauges, the logo
- 5 gauge and the non-logo gauge. We tested hundreds of
- 6 exemplar gauges we could get our hands on trying to
- 7 see are these gauges capable of measuring these
- 8 sorts of pressures.
- 9 **Q.** And what were your conclusions and where are
- 10 they set forth on page 64?
- 11 A. Paragraph 3. It says, "The logo and non-logo
- 12 gauges appear to have worked reliably and
- 13 consistently on game day, and the difference in the
- 14 pressure drops between the teams was not caused by a
- 15 malfunction in either gauge."
- 16 What we did notice in the testing was that
- 17 the so-called logo gauge read consistently, reliably
- 18 and repeatedly 0.3 to 0.4 psi higher. That's
- 19 already been discussed here today. But it would do
- 20 that every time. So it wasn't veering all over the 21 map. It was consistently in that range.
- 22 Q. And directing your attention to paragraph 6
- 23 of your conclusions, what were your conclusions with
- 24 respect to the potential contributions to the
- difference in the observed pressure drop with

- 1 respect to the physical factors tested?
- 2 A. The difference that we are seeing basically
- 3 usage really had no effect here. And as well as the
- ball preparations methods, we went and prepared 4
- 5 balls the same way that the Patriots told us they
- did it and the same way the Colts told us they did 6
- 7
- 8 So we prepared those balls and none of these
- 9 factors, these ones that I listed, were having any
- 10 effect on the difference of pressure inside the
- 11 balls between the Colts and the Patriots. They were
- 12 non-factors, so we excluded them from any sort of
- 13 conclusions that we made.
- 14 **Q.** And directing your attention to the last
- 15 sentence of paragraph 6, does that pretty much sum
- 16 up your conclusions with respect to the impact of
- 17 the physical factors?

18

- A. (Reading): "None of the above physical
- 19 factors at the levels we understand were applicable
- 20 on game day were found to contribute in any material
- 21 way to changes in internal pressure of the footballs
- 22 and do not, therefore, explain the relative
- 23 difference in pressure drops measured by us."
- 24 Q. And directing your attention to paragraph 9,
- 25 can you describe your conclusions with respect to

- 1 the transient experiments that you were conducting?
- 2 A. We did a series of transient experiments that
- 3 I told you about where we quantified the
- 4 time-dependent behavior of footballs and to
- 5 understand how such behavior might explain the
- 6 difference in the magnitude of the pressure drops.
- 7 So we looked at the -- very much looked at
- 8 the effect of time here in our experiments, very,
- 9 very much so. And we concluded that the timing does
- 10 have an effect on the pressure, but the timing in
- 11 and of itself did not account for the pressure drops
- 12 that we saw.
- 13 So timing is affecting the pressures, but
- 14 that in and of itself is not contributing to the --
- 15 cannot account for the difference in the pressure
- 16 drops.
- 17 **Q.** And does the last paragraph under Item 10
- 18 summarize your conclusions?
- 19 A. Yes.
- 20 **Q.** Can you read or summarize that into the
- 21 record.
- 22 A. (Reading): "Within the range of game
- 23 conditions and circumstances most likely to have
- 24 occurred on game day based on information provided
- 25 to us by Paul, Weiss, including the timing of

10

- 1 various events understood to have occurred in the
- 2 officials' locker room during halftime, we have
- 3 identified no combination of the environmental
- 4 factors listed above that could reconcile the
- 5 Patriots halftime measurements with both results
- 6 predicted by our transient experiments and the
- 7 measurements of the Colts' balls taken at game-day."
  - So environmental factors in and of itself
- 9 cannot account for the difference.
- 11 conclusions reached based or your experimental game

Q. Very briefly, can you describe the

12 day simulations.

8

10

- 13 A. Experimental simulations, again, failed to
- 14 account for the pressure drop difference between the
- 15 Colts and the Patriots. Those were experiments that
- 16 we tried to simulate the entire game day, and they
- 17 could not account for it.
- 18 And the game-day experiments also helped
- validate the transient experiments at the time 19
- 20 because the data we collected from the game-day
- 21 simulations overlay the data collected from our
- 22 transient experiments, verifying that aspect of it. 23
- Q. When you conducted the game-day simulations, 24 you actually used Colts' balls and Patriots' balls
- 25 that could be identified as having either been used

### DIRECT/CALIGIURI/REISNER Page 359

- 1 in the AFC Championship Game or previously marked by
- 2 Walt Anderson, correct?
- 3 A. That's correct.
- 4 Q. And you ran those balls through simulated
- events that basically replicated the conditions that 5
- 6 were understood to be present on game day, right?
- 7 A. That's correct.
- 8 **Q.** Now, you were here during the testimony of
- 9 Dean Snyder, correct?
- 10 A. Correct.
- 11 Q. And you heard Dean Snyder describe what he
- 12 described as his three key findings or criticisms
- 13 with respect to the Exponent report, correct?
- 14 A. Correct.
- 15 Q. I am referring to Exhibit 191 now. This is
- 16 NFLPA 191. What he describes as his first key
- 17 finding or criticism was, "Exponent's statistical
- 18 analysis of the difference of the average pressure
- 19 drops is wrong because it ignores timing."
- 20 Do you have a reaction or response to that
- 21 criticism?
- 22 A. Yes.
- 23 **Q.** What is your reaction or response?
- 24 A. It's totally unfounded criticism.
- 25 Q. Why?

- A. We did look at timing. We very much did so.
- 2 The statistical analysis we did up front was really
- 3 an intention to -- a gatekeeper to see if it made
- sense to follow up with everything else. And we 4
- 5 concluded it was statistically significant. We did
- 6 all sorts of experiments looking at time, time
- 7 effects, time effects on pressure, all of those.
- 8 We absolutely looked at timing. When we saw
- the effect of timing and when the balls were timed 9 out and measured, we then went back to the
- 11 statistical analysis as was discussed in Footnote 49
- 12 to our report. We went back and specifically put
- 13 the effect of time back into our model.
- 14 And to our -- I mean, it was interesting that
- 15 the statistical analysis said it wasn't a
- significant effect, timing. Well, that seems kind 16
- 17 of counterintuitive there. When experiments are
- 18 saying timing is important, how could this analysis
- 19 say it wasn't?
- 20 Well, the reason is that the other factors,
- 21 the physical factors that came into play, like ball
- 22 wetness and dryness, differences in inflation
- 23 pressure to start with, were masking the timing
- 24 effect that you would have expected to see if it was
- 25 all just due to increase in pressure at the time.
  - DIRECT/CALIGIURI/REISNERPage 361
- 1 So the reason you don't see a timing effect
- 2 that we concluded in the statistical analysis is
- 3 because it's being masked out by the variability in
- 4 the data due to these other effects.
- 5 **Q.** And with respect to Dean Snyder's key finding
- 6 or criticism 1, does that affect your views with
- 7 respect to the appropriateness of the work done by
- Exponent or the conclusions reached by Exponent? 8
- 9 A. No.
- 10 **Q.** I want to direct your attention to key
- 11 finding number 2 or key criticism number 2
- 12 identified by Dean Snyder, which is, "Exponent
- 13 improperly draws conclusions based on the
- 14 variability in halftime pressure measurements
- 15 despite conceding that the variability is
- 16 statistically insignificant."
- 17 Do you have a reaction or response to that 18 criticism?
- 19 A. I believe that one is unfounded as well.
- 20 Q. And why do you believe it's unfounded?
  - A. Because it's comparison of apples and oranges
- 22 here. The statistical analysis we did up front is
- 23 correct. We concluded the variability, which means
- 24 the variation of the measurements as you look at the
- 25 data set, the average of that compared to the

21

18

19

20

21

22

- average of variations, I will call it the average of
   the mean between the two could not be determined to
   be statistically significant.
  - So you couldn't say that the Patriots' balls, based on that analysis, was more variable than the variability in the Colts' balls, based on that specific statistical analysis of that data.

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

We came to the conclusion that part of the contributing factors, there were only four Colts' balls that were measured, as opposed to eleven Patriots. Maybe if we had more Colts' balls, we could have seen an effect. So that's correct, that's what happened.

Then we went and did all that physical testing. We saw the effect of all those other parameters, the effect or no effect of those parameters. We looked at that and then we went back and looked at the variability of the data comparing, at the same time looking at the variation of the balls, individual balls. And could we account in the difference in pressures based on other physical factors.

And the ranges and variability of factors were not predicted by the effect of, say, ball wetness and ball dryness that we saw. So we went

DIRECT/CALIGIURI/REISNER Page 363

- back and said, you know, there is variability inhere.
  - The statistical analysis you can't conclude, but based on a review of the fluctuations in the data and looking at the physical experiments that we did, we concluded that there is a difference there and that difference is most likely the differences in starting pressure of the footballs, two different analyses.

The statistical analysis did not preclude us from going back and looking at the physical realities that we measured. And that's what we did to come to that conclusion.

- **Q.** And with respect to key finding or criticism number 2 of Dean Snyder, does that affect your views with respect to the appropriateness of the work done by Exponent or the conclusions reached by Exponent?
- 18 A. No.
- Q. Directing your attention to key finding or
  criticism number 3 identified by Dean Snyder, which
  is, "If the logo gauge was used to measure the
  Patriots' balls before the game, then eight of the
  eleven were above Exponent's expected outcome."
- Do you have a reaction or a response to thatcriticism?

- 1 A. That's unfounded, too.
- **Q.** Why is it unfounded?
- 3 A. Well, there's already been a lot of
- 4 discussion here about logo versus non-logo gauge.
- 5 If you were to take the logo gauge and assume that
- 6 those measurements were made with the logo gauge,
- 7 then, as was talked about today by Dean Snyder, the
- 8 pressure the Patriots gave the balls to the referee
- 9 pre-game were 12.2, below the League minimum.
- **10 Q.** 12.17, right?
  - A. Yes. He calculated, I rounded it up, 12.17,
- 12 correct, okay. And then if you look at the Colts'
- 13 balls, if the same logo gauge was used, it's reading
- 14 12.6, 12.7. We were told that the Patriots and the
- 15 Colts were insistent that they delivered balls at 12
- 16 and a half and 13, which means, geez, looks like the
- 17 logo gauge wasn't used pre-game.

But, anyway, if you take that number, 12.17, and you plug it into the Ideal Gas Law, which is a mathematical formula, you can get a lower pressure and you can change the results, that's correct. But that's like using numbers that don't make any sense.

The other factor that he used to come up with this eight of eleven were above Exponent's expected outcome was, he assumed a temperature 71 degrees

DIRECT/CALIGIURI/REISNERPage 365

- 1 pre-game. That is a variable that we looked at. We
- 2 looked at the range of temperature in the pre-game
- 3 shower room. We actually measured it to be between
- 4 67 and 71, 72 degrees.
- 5 That's why in all of our experiments, we
- 6 looked at that as a potential range. If you use 71,
- 7 yeah, you get the numbers that Dean Snyder
- 8 calculated. But if you go use 67, which is the
- 9 other end of the range, you find out six of the
- 10 Patriots' balls were under the expected outcome.
- 11 When I say "expected outcome," predicted by the
- 12 Ideal Gas Law, okay.

13 And if you look at the non-logo gauge

14 pre-game, all of it, no matter how you look at it,

- 15 all of it comes out that eight of the eleven balls
- 16 fall below the expected outcome of the Ideal Gas
- 17 Law. Number 1, the use of the logo gauge pre-game.
- 18 Number 2 is the use of 71 degrees versus 67 degrees.
- 19 And the third one is the same mistake that has been
- 20 made by Professor MacKinnon, by AEI and now by Dean
- 21 Snyder.
- 22 They assume in their calculations of the
- 23 Ideal Gas Law what you have to do to use the Ideal
- 24 Gas Law is the balls come off the field at
- 25 48 degrees Farenheit and stay at 48 degrees

- 1 Farenheit throughout the measurement. That's the
- 2 only way you can use the Ideal Gas Law.
- 3 That we know didn't happen. The pressure is
- increasing with time. So this analysis by 4
- 5 Dean Snyder doesn't make any sense, even just
- 6 thinking about how the temperature was fixed
- 7 throughout the measurement period, and we know that
- 8 that's not correct. So those three factors, I can
- 9 take no faith in that conclusion.
- 10 Q. And did criticism 3 or finding 3 of
- 11 Dean Snyder affect your views with respect to the
- 12 appropriateness of the work done by Exponent or the
- 13 conclusions reached by Exponent?
- 14 A. No.

- 15 Q. Staying with the logo and non-logo gauge
- 16 issue for a moment, to what extent did Exponent
- 17 consider the possibility that the logo or non-logo
- 18 gauge might have been used in connection with its
- transient experiments and its game-day simulations 19
- 20 and account for that possibility?
  - A. Even though the evidence is pointing towards
- 22 the use of the non-logo gauge, we said let's look at
- 23 both conditions. What happens if the logo gauge is
- 24 used or the non-logo gauge is used pre-game? We did
- 25 that in the statistical analysis we did up front and

## DIRECT/CALIGIURI/REISNER Page 367

- 1 we did it in every experiment we ran.
- 2 You will see the experimental data shows for
- 3 logo gauge and non-logo gauge. We also looked at
- 4 the effect of ball wetness and ball dryness. Wet
- 5 balls and dry balls, we did that consistently
- 6 throughout all of our experiments. So even though
- 7 the evidence pointed towards using the non-logo
- 8 gauge, we considered it throughout our
- 9 investigation.
- 10 Q. And those different scenarios are
- 11 incorporated into the conclusions that you
- 12 described, correct?
- 13 A. That's correct.
- 14 **Q.** One other thing with respect to Dean Snyder's
- 15 analysis, if you go to the page with the Bates Stamp
- 16 Number 3429, and this is his description in the
- 17 difference in differences statistical approach used
- 18 by Exponent.
- 19 His bullet point 2, with respect to the
- 20 difference in differences statistical approach used
- 21 by Exponent says that, "The Colts' balls were used
- 22 as control. Using Colts' balls as controls required
- 23 whether the greater drop of psi in Patriots' balls
- 24 was statistically significant."
- 25 Were the Colts' balls used as controls in any

- 1 way with respect to the statistical significance
- 2 analysis performed by Exponent?
- 3 A. Absolutely not. I don't know where that idea
- came from. We did not consider the Colts' balls as 4
- 5 controls in other statistical analysis. We looked
- 6 at them both equally. And looked at the variation
- 7 in the data for both the Patriots and the Colts.
- 8 There was no assumptions about control or
- 9 anything like that on the Colts' balls in our
- 10 statistical analysis.
- 11 Q. You mentioned the AEI report. Did you review
- 12 the AEI report that was published?
- 13 A. I sure did.
- 14 Q. And with respect to the AEI report, one of
- 15 the criticisms or observations made by AEI was that,
- 16 "There was no statistically significant difference
- between the pressure drop of the Colts' balls versus 17
- 18 the Patriots' balls if you assume the logo gauge was
- 19 used pre-game as opposed to the non-logo gauge."
- 20 Do you have a reaction or response to that
- 21 criticism?
- 22 A. Yes, I found that to be unfounded as well.
- 23 What the AEI report did is look at four possible
- 24 combinations pre-game. All the measurements were
- 25 made with the logo gauge. All the measurements were

- 1 made with the non-logo gauge.
- 2 And then, for some reason, which there is no
- 3 evidence of, Walt Anderson switched them out. He
- 4 measured Patriots' balls with the logo and the
- 5 Colts' balls with the non-logo and then the other
- 6 way around. So he looked at four possibilities.
- 7 Two of those possibilities just don't make
- 8 sense because there's never been any indication that
- 9 Walt Anderson switched the gauges in the middle of
- 10 his pre-game measurements. We had no indications.
- 11 We were actually told to assume that that did not
- 12 happen because there was no evidence that that
- 13 happened outside of AEI. We take those two 14
  - scenarios off the table.
- 15 The other two scenarios, there is one set of
- 16 combinations within those within which you could get
- 17 to the conclusion that the p-factor as we heard
- 18 about today was 6.7 percent, but there's problems in
- 19 that analysis as well.
- 20 They had included in that analysis, AEI, a
- 21 factor related order to order, which we had
- 22 concluded was not a factor included in that. If you
- 23 take that factor out, you cut that probability in
- 24 half down to about two and a half percent.
- 25 The AEI report also suggested that, "The

#### Case 1:15-cv-05916-RMB-JCF Document 28-230 Filed 08/04/15 Page 97 of 172 evidence indicated that because the Patriots' balls 1 calculations again made that same mistake assuming 2 were measured at the start of halftime, whereas the the temperature of the footballs at 48 degrees as it Colts' balls were measured at the end of halftime, 3 comes off the field remains at 48 degrees throughout after sufficient time had passed for the balls to 4 the transient period and calculates Ideal Gas Law warm up and return to their pre-game pressure, that 5 and compares it to the measurements. And that's was an explanation for the delta in pressure drop." 6 just, you can't do that. Did you have a reaction or response to that 7 Q. And did Professor MacKinnon also make an 8 error with respect to the conversion factor of the observation? 9 balls? A. Yes. That makes no sense, as I just talked 10 A. Yes. about, because we specifically looked at that 11 Q. Can you describe that? effect. It suggests to me AEI didn't even read our report. We looked at the effect of transient 12 A. He failed to convert them all onto the same change, the change in pressure with time 13 equivalent platform. We know there is a continuing specifically as a possible contributing factor and 14 error, if you like, in the logo gauge of about concluded that it wasn't. 15 .4 psi, which is why you have to convert everything So I don't know where they got that 16 to a single master gauge calibration, which we did. 17 We took a master gauge and made measurements conclusion from, but it's not consistent with the data published in our report. 18 and put the pressure on the logo gauge and said what 19 Q. And AEI in their report also suggested that, the master gauge was doing and came up with a "There may have been a flaw in the statistical 20 calibration curve. And we did the same thing for significance equation used by Exponent." 21 the logo curve. So we calculated and converted all 22 the data to the same basis, the same equivalent Did you have a reaction or response to that criticism? 23 playing field. A. That one didn't make sense, either. The AEI 24 Professor MacKinnon did not do that. He did 25 report says that we used a multivariable regression not convert them all, so you are comparing apples DIRECT/CALIGIURI/REISNER Page 371 CROSS/CALIGIURI/KESSLERPage 373 analysis and they did something to try to repeat our 1 and oranges. numbers. They got most of them except they were 2 Q. Directing your attention to the MacKinnon unable to repeat our calculations. 3 study, the MacKinnon report, did it affect your And they did something else. We didn't use a views in any way with respect to the appropriateness multivariable regression analysis. We used what's 5 of the work done by Exponent or the conclusions called a liner mixed mode analysis. They are 6 reached by Exponent? statistical tools. So either they didn't understand 7 A. No. 8 what we did or just assumed we did something else. MR. REISNER: Nothing further at this time. And that's why they couldn't reproduce our results. 9 CROSS-EXAMINATION BY So yes, we used a linear mixed mode 10 MR. KESSLER: regression analysis, which is a standard 11 Q. Ready to go? Good evening, I guess, now. 12 A. Sorry? statistically-accepted tool. So I don't understand 13 where that criticism came from. **Q.** Dr. Caligiuri, how do you pronounce your Q. And Professor, Dr. Caligiuri, after reviewing 14 name? I want to get it correctly. the AEI report, did it affect, in any way, your 15 A. "Kala-jerry" [phonetically]. views with respect to the appropriateness of the 16 "Caligiuri"? 17 work done by Exponent or the conclusions reached by Do you like "doctor" or what do you prefer? 18 Exponent? A. Whatever you like. A. No. 19 Q. I will call you Mr. Caligiuri, okay. 20

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

22

23

24

that report?

**Q.** You also referred to a report prepared by a

Professor MacKinnon. Did you have any responses or

A. I think I already mentioned one of them

because his conclusion regarding the Ideal Gas Law

reactions to the commentary that was set forth in

21

22

23

24

25

Mr. Caligiuri, let's see if we can find some

You had to take that into account, yes.

points of agreement. Do we agree that timing was a

very important factor in determining whether or not

natural causes could explain the results of the

Patriots' and the Colts' balls?

# Case 1:15-cy-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 98 of 172 CROSS/CALIGIDRI/KESSLERPage 376

- 1 Q. In fact, I think you wrote it was the most
- 2 significant factor in your report; is that fair?
- 3 A. We certainly considered it a significant
- 4 factor, yes.
- **5 Q.** The most significant? That's what you wrote
- 6 in your report.
- 7 A. Yes.
- **Q.** You don't disagree with that?
- 9 A. No.
- **10 Q.** Just trying to find points of agreement.
- 11 Second, do you agree, you saw the criticism
- 12 number 3 that Dr. Snyder presented, and he indicated
- 13 that you should have recalibrated the starting
- 14 pressures through the master gauge because you were
- **15** comparing those starting pressures to the halftime
- **16** pressures, which you did to the master gauge.
- 17 Do you agree that you should have done that?
- 18 A. No.
- **Q.** So you think it's appropriate to take one set
- 20 of pressures, not do the master gauge and compare it
- 21 to another set of pressures through the master
- **22** gauge; that's your opinion?
- 23 A. No. The opinion is, in fact, the 12.5 we
- 24 used is a master gauge reading. It is --
- **Q.** You didn't do -- for the two balls you tested

### CROSS/CALIGIURI/KESSLER Page 375

- 1 at halftime, logo or non-logo, you translated to the
- 2 master gauge, right?
- 3 A. Correct.
- **Q.** And for the starting time, you didn't do any
- 5 translation to the master gauge, whether it was logo
- 6 or non-logo, right? You didn't make any change?
- 7 A. You said "starting time."
- **Q.** The pre-game measurement, you didn't do any
- 9 translation to the master gauge there?
- 10 A. The master gauge is 12 and a half percent --
- 11 12 and a half psi, and we used 13.0 psi for the
- 12 Colts.
- **Q.** Did you do any calculation for the pre-game
- **14** testing to convert the measurements recorded to
- **15** something in the master gauge?
- 16 A. The master gauge conversion, if you convert
- 17 the 12.5 psi comes from use of the logo gauge
- 18 pre-game.
- 19 And that, as Dean Snyder says, is
- 20 12.17 percent -- 12.17 psi. You can put that in
- 21 there and you can do Ideal Gas Law calculations, but
- 22 they are not consistent with the physical facts.
- **Q.** They are not consistent with what physical
- **24** fact?
- 25 A. The fact that if that was happening, then the

- 1 Patriots gave the referees 12.17 psi balls, below
- 2 the League minimum.
- **Q.** How do you know that the Colts -- and, I'm
- 4 sorry. How do you know that the Patriots and the
- **5** referee were both not using something equivalent to
- 6 the logo gauge?
- 7 A. So you're asking me to assume that all three
- 8 of these people, the Patriots pre-game, the Colts
- 9 pre-game, and Mr. Anderson pre-game all used the
- 10 same gauge that were exactly the same amount off?
- 11 All the tests --
- 12 Q. No.
- 13 A. I'm sorry; go ahead.
- **14 Q.** I am asking the following. You have never
- 15 seen or tested or looked at the Colts' gauge or the
- **16** Patriots' gauge pre-game, right?
- 17 A. That's correct.
- **Q.** Okay. So you have to make some assumptions
- 19 about it, correct?
- 20 A. Correct.
- **Q.** Do you know if Wilson ever issued a version
- 22 of its logo gauge to the NFL teams in the past, just
- 23 like the one that was used for some of the
- 24 measurements at halftime to NFL teams and that over
- 25 the age of those gauges, they would all approximate

### CROSS/CALIGIURI/KESSLERPage 377

- 1 what the logo gauge was? Did you ever consider that
- possibility?
- 3 A. So you're asking me to consider that Wilson
- 4 gave the League gauges that were out of calibration?
- **Q.** No, that over time they got out of
- 6 calibration.
- 7 A. All the gauges got out of calibration by the
- 8 same amount?
- **9 Q.** Over the same period of time.
- 10 A. I would say that's pretty highly unlike.
- **11 Q.** You think that's unlikely? Did you do any
- 12 test for that?
- 13 A. How would we test that? We tested the logo
- 14 gauge and found that it reads very repeatedly .3 to
- 15 .45 above the master gauge. And we tested hundreds
- 16 of gauges that we got, exemplar gauges. Yes, you
- 17 are right, they are new. And they all read what the
- 18 master gauge said they should be.
- **19 Q.** Your testimony is the logo gauge, which the
- 20 referee who was testing, he had two gauges, the logo
- 21 gauge and the non-logo gauge, right?
- 22 A. He had those in his possession, yes.
- **Q.** And sometimes you understood he would use the
- 24 logo gauge, right? Sometimes in some games over his
- 25 life, he would use the logo gauge, right?

#### Case 1:15-cv-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 99 of 172 CROSS/CALIGIDRI/KESSLERPage 380 1 A. I don't know if I know that for a fact. 1 sworn testimony? 2 2 Q. Okay. My question is: What you are MR. NASH: Objection. 3 testifying is, so every game he ever tested when he 3 MR. LEVY: You can answer. 4 used the logo gauge, he could have been allowing 4 A. We went out and collected all the gauges we could find. Were we specifically looking for older 5 illegal balls into play; is that what your testimony 5 6 is? gauges that were, like, three years old? No, we 6 7 A. If he was using the logo gauge and it was off 7 didn't do that. **Q.** With respect to timing, okay, is it correct 8 8 by .3, by .45, and the team had set the ball at 12 9 and a half, it would have fallen below and he as Dr. Snyder said that your difference of 9 10 wouldn't have known. 10 differences analysis as presented did not have any 11 **Q.** So there could have been numerous NFL games 11 timing variable in the regression? A. Initially, yes. We went back and put that 12 in which he used the logo gauge where the balls were 12 13 underinflated, in your view, below the 12.5? 13 back in after we saw the effect of time on pressure. 14 A. I haven't analyzed all the games in history 14 **Q.** So the initial test you did to determine 15 15 and which gauge he used and didn't use. whether there was anything to study did not have a 16 **Q.** You just said all of the hundreds of exemplar 16 timing variable? 17 gauges you used were new, correct? 17 A. Not specifically, no. 18 A. We bought them, yes. 18 **Q.** Okay. And had you put in that timing 19 **Q.** Did you do any testing as to over time, if 19 variable, do you think Dr. Snyder put in the timing 20 20 variable improperly? you have a gauge for one year, two years, three 21 years, those gauges, what that does to the -- to how 21 A. I'm not sure. You mean the graphs that he 22 22 showed? the gauges register in terms of their calibration? 23 A. Well, we have one data point, the non-logo 23 **Q.** Yes. In other words, he states for his first 24 gauge never got off by that much. We certainly 24 criticism, he took your analysis and simply put in 25 25 didn't test these gauges for years on end. There the timing variable in his first one, before he had CROSS/CALIGIURI/KESSLER Page 379 CROSS/CALIGIURI/KESSLERPage 381 wasn't any time for that. So we didn't watch one or three cases. The first case all he did was put in 1 1 2 multiples of our exemplar gauges over a three-years' 2 timing. Did you see that one? 3 period. No, we didn't do that. 3 A. Well, I think in all three cases, he put

4 Q. How do you know the non-logo gauge wasn't 5 also a new gauge? Did you do any examination of 6 that? 7 A. Didn't look very new. 8 Q. Do you know how old it was?

9 A. No. 10 **Q.** Do you know what its age was compared to the

11 logo gauge? 12 A. No.

13 Q. You don't know any of that?

14

15 **Q.** Okay. Now, you could have gone out to eBay

16 or something and bought old gauges, right?

17 A. I think we looked pretty hard to find gauges.

18 **Q.** Did you look specifically for older gauges?

19 A. We looked for all the gauges we could find.

20 **Q.** So your testimony under oath is you

21 specifically were looking for older gauges and you

22 couldn't find them anywhere on the internet? That's

23 vour testimony --

24 A. I can't -- I can't --

25 Q. -- under oath? Is that your testimony, your 4 timing in some form.

5 **Q.** Yes. The first one was just timing, that

exactly your thing, but putting in a timing, assuming that the Colts' balls were tested before 7

the reinflation. 8

6

9 The second one put in timing assuming the

10 Colts' balls were tested after reinflation.

11 And the third one added in the wetness

12 factor. So those were the three ones. Do you

13 remember that now?

14 A. Yes, I do.

15 **Q.** So in the very first one he did where he

16 stated that he just put in a timing factor and made

17 no other change and assumed that the Colts ball were

18 tested before reinflation, do you think he did that

19 improperly in some way? Do you have some criticism

20 of his methodology for doing that?

21 A. I think I would leave that to the

22 statisticians to discuss. But what I did notice,

23 and I don't know exactly how he calculated the

24 p-values he showed us, but if you look at what he 25 did, he took the averages, took the averages of the

99 of 172 sheets Page 378 to 381 of 457 06/25/2015 03:43:11 PM

- 1 Colts' balls and the average -- he looked at the
- 2 average of the Colts' balls measured right after the
- 3 Patriots' balls.
- 4 And you can't do that. You can't compare 5 averages because inside those four balls the Colts
- 6 are doing, pressure is changing with time. You have
- 7 to do a ball-by-ball movement and then do the
- 8 analysis. To me, he just took a grab of averages
- 9 and compared it to a grab of averages.
  - The other thing he did was he used that curve he showed where he pulled data off; that's actually the wrong curve to use.
- **Q.** Let me ask you this: Did you do any analysis
- 14 of the fact that the Colts' balls could have been
- 15 much dryer than the Patriots' balls because the
- 16 Patriots' balls were used much more in the second
- **17** quarter of the game?
- 18 A. Yes.

11

12

- **19 Q.** Okay. And tell me what analysis you used
- 20 which compared the Colts' balls being at a lower
- 21 level of wetness versus the Patriots' balls being at
- 22 a much higher level of saturation.
- 23 A. If you go to Figure 28 on page 55, that's
- 24 sort of the summary of the transient experiments we
- 25 ran, and then the overlay of the average data on the
  - CROSS/CALIGIURI/KESSLER Page 383
- 1 transients.
- **Q.** Yes.
- 3 A. And you see wet and dry, wet and dry, wet for
- 4 the Patriots, dry for the Patriots, dry for the
- 5 Colts, dry for the Colts.
- **Q.** You used the same wetness for the Patriots
- 7 and the Colts' balls, right, when you did that
- 8 analysis; you did the same spraying procedure?
- 9 A. They were sprayed the same way in the
- 10 beginning of time --
- **11 Q.** Right.
- 12 A. -- in the beginning of the measurement cycle.
- 13 Let me finish my answer, okay. And then they dried.
- 14 We didn't keep rewetting them throughout the
- 15 transient period. So when we say "Patriots wet,"
- 16 they were wetted to that amount and they dried with
- 17 time, because we didn't rewet them.
- 18 The Colts' balls were wetted to the same
- 19 degree to start and dried with time. Did we look at
- 20 were the Colts' balls, on average, dryer when they
- 21 went into the locker room? No, but there's no
- 22 indication that that's actually the case.
- 23 Q. Ah, let's assume it was the case. You didn't
- 24 test for that, right?
- 25 A. Did we look at wetness as a variability?

- 1 **Q.** Yes.
- 2 A. In the beginning, no, we didn't.
- **Q.** Okay. Are you a football fan?
- 4 A. Yeah.
- **Q.** You are familiar with the fact that when the
- 6 defense is on field during a rainy game, the balls
- **7** are in the bag?
- 8 A. The balls can be in the bag. We actually --
- 9 Paul, Weiss actually talked to the ball boys that
- 10 were actually handling the balls on game-day. And
- 11 that was part of our game-day simulation which we
- 12 couldn't account for the pressure drop anyway. And
- 13 some balls were in the bag; some weren't. They
- 14 tried to keep them as dry as possible.
- **Q.** Okay, try to keep them as dry as possible,
- 16 right? It's easier to keep your ball dry if you are
- 17 not in offense and the ball is not out in the field,
- 18 right? You agree with that, right?
- 19 A. If all the balls are in the bag and you are
- 20 not playing football and the balls are in the bag
- 21 sealed up, balls will be not as dry -- not as wet as
- 22 the ones you just picked up off the field.
- **Q.** So you would have to agree with me it's a
- 24 very plausible assumption that the Patriots' balls
- 25 could have been much wetter than the Colts' balls

### CROSS/CALIGIURI/KESSLERPage 385

- **1** because of the fact that the Patriots were on
- 2 offense all the time with the balls? That's
- 3 plausible, right? It's not not plausible?
- 4 A. It is a possibility, but there is no evidence
- 5 that that occurred. The ball boys themselves said
- 6 they tried to keep them as dry as possible.
- **Q.** You don't know whether it occurred or not?
- 8 A. For all I know, what the ball boys said.
- **Q.** Well, if you are on offense and you are
- 10 playing with the ball, can you keep it dry when it's
- 11 out there on the field?
- 12 A. No.
- **Q.** Okay. So if the Patriots have those balls
- 14 out there on the field, it's plausible those balls
- **15** were wetter, sir, right? You are under oath.
- 16 A. Sure.
  - Q. Is it plausible?
- 18 A. Sure.
- **19 Q.** Okay. And you didn't test for that plausible
- 20 assumption, right? Did you test for it?
- 21 A. No, because --
- 22 Q. Thank you.
- 23 A. -- what would you test for?
- **24 Q.** Let's move on to the next one.
- 25 MR. LEVY: Let him finish his answer.

17

#### Case 1:15-cv-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 101 of 172 CROSS/CALIGURI/KESSLERPage 386 1 MR. KESSLER: Okay. experiment to try to determine if natural causes 2 2 **Q.** You didn't test for it, right? could explain the drop in the Patriots' balls, 3 A. What would you assume they were? 3 right? You could explain the drop in pressure in the Patriots' balls? You did a series of 4 COMMISSIONER GOODELL: Let him finish his 4 5 answer. 5 experiments, right? 6 A. What would you assume they were? What are A. We looked at usage, physical and 6 7 you going to pick? What are you going to pick? 7 environmental factors. 8 Well, the Colts' balls were five percent dryer than 8 Q. And on page 54 of your analysis, you say, 9 the Patriots and ten percent? There is no basis to 9 "For the Patriots, it appears that so long as the 10 pick anything. So we picked extremes of what we 10 average time at which the Patriots' balls were 11 11 thought we could do and evaluated that. measured is no later than approximately two minutes 12 Q. Right. The data was very limited, so it 12 after the balls were brought back into the official 13 constrained what you could do, right? 13 locker room, the game-day results can be explained 14 A. Yeah. The ball boys weren't out there with 14 by natural causes," right? 15 15 the hydrometer measuring the wetness of the balls, That was your conclusion? 16 A. Yes. 16 no. 17 Q. No. The referees weren't indicating whether 17 Q. So the reverse is also true. It's your 18 it was a dry ball or a wet ball when they did the 18 conclusion that if the Patriots' balls were measured 19 test; is that true? 19 earlier -- I'm sorry, if the Patriots' balls were 20 A. That's true. 20 measured later than approximately two minutes, then 21 Q. Okay. It's also true the referees weren't 21 natural causes could explain it, right? The 22 22 converse has to be true? indicating if one ball was especially wet and one 23 ball was a little wet; they didn't tell you that, 23 A. No. 24 24 right? Q. Well, I have to understand this, then. Read 25 A. No. 25 your sentence I'm reading. It says, "For the CROSS/CALIGIURI/KESSLER Page 387 CROSS/CALIGIURI/KESSLERPage 389 1 **Q.** And you don't know if, on the number of balls 1 Patriots, it appears that so long as the average tested, if there were more Patriots' balls that were 2 2 time at which the Patriots' balls was measured is no 3 wet as opposed to Colts' balls, just one way or the 3 later than approximately two minutes after the ball 4 other, correct? 4 was brought back into the official locker room, the A. No, but you got to remember we tested the game-day results can be explained by natural 5 5 ranges of wet and dry, so all the balls would fit in 6 causes," right? 6 these bands that are plotted in Figure 28, 7 7 A. That's what it says. 8 differences in wetness. 8 **Q.** Okay. So what that means is, if the 9 Q. Not the variability of wetness; you didn't Patriots' balls are brought in and started to be 10 test that? You just told me that, right? 10 tested in the first minute, then natural causes 11 A. We did. 11 could explain them, right? 12 Q. You didn't test if the Patriots' balls were 12 A. This is the average time. So that means that 13 much wetter than the Colts' balls? You just stated 13 all eleven of the balls have to be measured within the first two minutes. Is that a possibility? Yes. 14 that. 14 15 A. At the beginning of the measurement period 15 I don't think that's very likely. 16 what you suggested, the balls were brought into the 16 Q. When it says "average," "average" doesn't 17 17 locker room and, on average, the Patriots' balls mean all within the first two minutes? It means, an 18 were wetter --18 average means when you take all the times, you 19 Q. Yes. 19 average it together; isn't that what "average" 20 A. -- than the Colts' balls. 20 means? 21 **Q.** You didn't test for that? 21 A. No. What it means is that if all the

22

23

24

25

Patriots' balls were measured within zero and

the natural causes can explain it.

Q. That's not what it said. Is this a

two minutes and the average falls within that, then

A. We did not test for that because there was no

**Q.** Somebody else might disagree with that.

Let's move on to another one, okay. You did an

22

23

24

basis to test for it.

# Case 1:15-cy-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 102 of 172

- **1** misstatement here? What I'm reading it says, "As
- 2 long as the average time at which the Patriots'
- 3 balls were measured is no later than approximately
- 4 two minutes after the balls are brought back into
- 5 the official locker room, the game-day results can
- 6 be explained by natural causes."
- 7 Doesn't that mean "average time" means
- 8 "average time"? You add all the times and you come
- **9** up with an average? You divide it by the number of
- 10 observations? Isn't that what an average is?
- 11 A. Yes.
- **Q.** Okay. So that would be some of the balls
- 13 could have been later than two minutes, some could
- 14 have been at 30 seconds, some could have been at
- 15 one minute, some could have been at one and a half
- **16** minutes, some could have been at two, some could
- 17 have been at two and a half minutes and the average
- 18 could still be within two, right?
- 19 A. Correct.
- **Q.** And if that was done, then it is your
- 21 conclusion that natural causes could explain what
- 22 you measured for the Patriots' balls?
- 23 A. Yes, and I said that and -- but that means
- 24 the balls got started measuring as soon as they got
- 25 into the locker room, which I don't think is very

#### CROSS/CALIGIURI/KESSLER Page 391

- 1 realistic.
- **Q.** Were you in the locker room?
- 3 A. No.
- **Q.** Did anyone write down the time at which they
- 5 started doing it?
- 6 A. No.
- 7 Q. Now, did you know that the officials felt
- 8 rushed to try to get all the balls done? They
- 9 didn't even finish all the Colts' balls, did they?
- 10 A. They did four.
- 11 Q. They only did four out of eleven or twelve,
- **12** right?
- 13 A. Right.
- **14 Q.** And so you don't think in that environment
- **15** they would have started immediately? That's not a
- 16 plausible assumption?
- 17 A. I think all the indications is that it would
- 18 be very hard for them to get started with all the
- 19 measurements and finish the average of it less than
- 20 two minutes to get it done. I don't think that's a
- 21 highly plausible explanation. Is it possible?
- 22 Absolutely. That's why I put it in this report.
- **Q.** Now, this statement here that you have is
- 24 based on the assumption that the measurements were
- **25** done by which gauge for the Patriots' balls?

- 1 A. I believe that's for the non-logo gauge.
- **Q.** Okay. If it was done by the logo gauge --
- 3 A. No, I'm sorry. That's the logo gauge; I
- 4 apologize.
- **Q.** If it was done by the non-logo gauge, would
- **6** they have a longer period of time? I believe if you
- 7 look at your charts on page 55, that might help you.
- 8 A. Yes, that's correct.
- **9 Q.** They would have a longer period of time if it
- **10** was a non-logo gauge, correct?
- 11 A. Correct.
- **Q.** And you wrote in your report it's uncertain
- 13 as to which gauge was used? That's why you tested
- **14** both?
- 15 A. Correct.
- **16** MR. KESSLER: So if we had the non-logo
- 17 gauge, there's a longer window, Commissioner --
- **18 Q.** -- if you would explain to him, that it is
- **19** possible that your results would indicate natural
- 20 causes could explain this, right?
- 21 A. And I have presented those possibilities in
- 22 this report. You have to look at the totalities of
- 23 the information availability and what's physically
- 24 plausible leads us to the conclusion of what is more
- 25 likely. But that's why we did all this testing, was
  - CROSS/CALIGIURI/KESSLERPage 393
- 1 to look at all the possibilities, and there were
- 2 possibilities you could find. But you look at the
- 3 totality of the information available and conclude
- 4 what's most likely to have occurred.
- **Q.** Do you agree that the relative temperature
- 6 that should be measured, if you could, would be the
- 7 internal temperature of the football and not the
- **8** external room temperature?
- 9 A. The problem with measuring the internal, and
- 10 we tried to do this, is that the air inside of a
- 11 football is stagnant. It's not flowing. So that
- 12 means you have very large gradients in temperature.
- 13 So if you were to put a thermo -- and we
- 14 tried to do this -- and you tried to measure the
- 15 temperature in a football, you are going to get
- 16 really wildly weird results, because the gradient is
- 17 not uniform. So if you measure this spot, it's not
- 18 representative of that spot over there or that spot
- 19 over there.
- 20 So that's why, yeah, I would agree with you,
- 21 but there's no reliable way to do that unless you
- 22 could monitor every cubic millimeter of air inside a
- 23 football.
- **Q.** Whether or not it's a reliable way to do it,
- 25 you would agree that what actually the Natural Gas

#### Case 1:15-cv-05916-RMB-JCF Document 28-230 Filed 08/04/15 Page 103 of 172 CROSS/CALIGURI/KESSLERPage 394 1 Law predictions you should look at is the internal 1 Q. Mr. Caligiuri, one of the things you tested 2 2 temperature of a football if you could measure that, for was the Patriots' gloving of the football, 3 right? 3 correct? 4 A. If you are comparing external temperature to 4 A. We looked at the effect of the Patriots' 5 external temperature, then you can use the Ideal Gas 5 pre-game work on the balls to see if that could be 6 Law. If you can measure the internal temperature in 6 causing the differences in pressure. 7 the locker room and measure the internal temperature 7 COMMISSIONER GOODELL: What do you mean the 8 8 on the field and then do the same thing, yeah, "gloving"? 9 9 that's a good way to do it. **Q.** Just for the Commissioner's benefit, the 10 10 gloving was that the Patriots indicated that as part **Q.** Okay. Do you agree with me that the internal 11 temperature of a football could be different from 11 of their preparation of the balls, they would have 12 the external temperature? 12 someone take receivers' gloves and vigorously rub 13 A. That's why the pressure is increasing with 13 the balls to prepare them; is that correct? 14 time. 14 A. That's part of what they do, yes. I think 15 15 Q. Yes. So it can be different, correct? that's what Mr. Brady talked about as part of the 16 A. It is different. 16 overall preparation program. 17 **Q.** And you have no measurements for the internal 17 Q. And what you meant to do in your testing was 18 temperature of the footballs at any time, at 18 to try to replicate what the Patriots did, correct? 19 halftime, post-time, before the game? You have no 19 A. As best we could, yes. 20 20 measurements for that at all, but you can't do them? **Q.** Now in your gloving experiment, what you did 21 A. We tried to do it and I explained to you why is that you first took a measurement of the psi and 21 22 22 that data is not reliable. then you did the gloving; is that correct? 23 Q. Is that a long way of saying you don't have 23 A. The whole preparation treatment, the gloving 24 those measurements? 24 was an important part, yes. 25 25 A. We have them. You can look at them. Q. But what the point here is in the gloving, CROSS/CALIGIURI/KESSLER Page 395 CROSS/CALIGIURI/KESSLERPage 397 1 **Q.** But you don't think they are reliable? 1 when did you take your measurements? Did you take 2 A. That's right. 2 it before the gloving or after the gloving? 3 3 Q. Okay, we will do it that way. Now, let me A. Before the gloving? Measurements of what? 4 ask you this. Had you found originally through your 4 Figure 16 talks about it. 5 5 differences from differences analysis that there was **Q.** I will try to be more specific. Let me find 6 my specific reference to this. One second. 6 no statistically significant effect, is it correct, 7 as was suggested, you would have closed up your 7 A. I think Figure 16 in the report is the answer 8 books and not done any further analysis? Because 8 to your question. 9 that's what was suggested by counsel in the 9 Q. So what does Figure 16 indicate? When did 10 questioning. You may have been here for that. 10 you take your measurement for the gloving? 11 A. I'm not sure that's the case. 11 COMMISSIONER GOODELL: What page is that? 12 12 THE WITNESS: I'm sorry, 34. **Q.** So you disagree with counsel about that? 13 13 A. Sorry? A. I think we would want to pursue it a bit more 14 because the statistical analysis was only one part 14 **Q.** Explain what that figure shows as to when you 15 of the overall program. 15 did the gloving and when you took your measurements. 16 MR. KESSLER: Could we do this, Commissioner? 16 A. It's very clear here we started out at 17 17 If I may, I know it's running late. I think if you 12.5 psi. We were measuring the pressure 18 18 internally, continuously throughout the entire give me a break, I can more consolidate my notes and

19

20

21

22

23

24

rubbing.

**Q.** So you first measured 12.5. Just tell me the

inside at times zero, 12 and a half psi and we are

rubbing. And the pressure is going up as you can

A. We took a football. We put a pressure gauge

order of what you did, if you can, please.

see in Figure 16. We are monitoring it

19

20

21

22

23

24

25

possibly either significantly limit how many more

questions. But I think it would be worth taking a

(Recess taken 7:04 p.m. to 7:12 p.m.)

questions I have or even possibly eliminate my

break for five minutes rather than sitting here

right now while I do that.

MR. LEVY: Yes.

1 2	Case 1:15-cy-05916-7018-10- Document 2		BU Filed U8/04/15 Page 11/4 of 1/2
	continuously, so I guess I am not understanding your	1	Q. After the rubbing was stopped, do you know
	question.	2	that the rubbing was stopped, do you know that the rubbing was done a period of time before it
3	COMMISSIONER GOODELL: I think that's the	3	was given to the referees? You know that?
4	issue. You are doing it continuously?	4	A. I believe the preparation was done before the
5	THE WITNESS: Continuously.	5	balls were given to the referees.
6	COMMISSIONER GOODELL: Monitoring the	6	Q. It wasn't done the second before the
7	pressure?	7	referees, right? It was done some period of time
8	THE WITNESS: Yes.	8	before then?
9	Q. So you were monitoring the pressure from the	9	A. Yes.
10	beginning to the end of the gloving process; is that	10	Q. Okay. So if they set their psi at 12.5,
11	correct?	11	after rubbing, that was their procedure, under your
12	A. Yes.	12	analysis, how much below 12.5 would it drop as the
13	Q. Okay. So based on your figures, if the	13	rubbing effect wore off?
14	Patriots were gloving the ball before setting their	14	A. The rubbing effect is worn off within about
15	pressure to give it to the referees, let's assume	15	20 or 30 minutes of when you started.
16	that's correct, okay?	16	COMMISSIONER GOODELL: Mr. Kessler, didn't
17	You understand what I'm saying, that the	17	Mr. Brady testify that he picked the ball up three
18	Patriots' procedure was to glove their balls and	18	to four hours before the game?
19	this was done before they would go in to the	19	MR. KESSLER: Yes, he did.
20	referees for the measurement of the pressure at,	20	COMMISSIONER GOODELL: So would that mean the
21	let's say, 12.5, okay? You understand what I'm	21	rubbing was over at that point in time?
22	saying?	22	MR. KESSLER: The rubbing would have been
23	A. Yes.	23	done before he picked it up, correct, before he
24	Q. So in other words, there's a period on your	24	picked up the balls.
25	Chart 16, there's a period before the 12.5 when the	25	COMMISSIONER GOODELL: At least three to
	CROSS/CALIGIURI/KESSLER Page 399		CROSS/CALIGIURI/KESSLERPage 401
1	gloving is taking place? You understand my comment?	1	four hours by the time the referee checked the ball,
2	A. The rubbing was started about ten minutes	2	right?
3	after zero.	3	MR. BRADY: Can I talk?
4	Q. Let's say it started at minus ten. In other	4	MR. KESSLER: Why doesn't Mr. Brady explain.
5	words, the point is before the first measure at the	5	MR. BRADY: On that particular day, like I
6	referee, the gloving was done. Let's assume that	6	said, we changed. They were rubbing in all the new
7	for the moment, okay?	7	balls, which was the first time we did it all
8	COMMISSIONER GOODELL: I'm not sure I'm	8	season. So when I picked the balls, I still had
9	clear.	9	them rub the balls as I left the equipment room to
40	A. No, I'm sorry. I really apologize for that.	10	go for my game-day preparations.
10		11	
10 11	This is an experiment that we did where we started		So I still had them, say, I like these, you
	This is an experiment that we did where we started at 12 and a half and we did the rubbing experiment	12	So I still had them, say, I like these, you know, however many, 17, 18, 19 balls. Just glove
11	•		
11 12	at 12 and a half and we did the rubbing experiment	12	know, however many, 17, 18, 19 balls. Just glove
11 12 13	at 12 and a half and we did the rubbing experiment and the pressure came back down to the initial	12 13	know, however many, 17, 18, 19 balls. Just glove these five or six balls a little bit longer and then
11 12 13 14	at 12 and a half and we did the rubbing experiment and the pressure came back down to the initial pressure within 30-some-odd minutes, 40 minutes.	12 13 14	know, however many, 17, 18, 19 balls. Just glove these five or six balls a little bit longer and then I left as they were still finishing those up.
11 12 13 14 15	at 12 and a half and we did the rubbing experiment and the pressure came back down to the initial pressure within 30-some-odd minutes, 40 minutes.  Q. If, in your analysis, if after gloving the	12 13 14 15	know, however many, 17, 18, 19 balls. Just glove these five or six balls a little bit longer and then I left as they were still finishing those up. COMMISSIONER GOODELL: Okay. But if they had
11 12 13 14 15 16	at 12 and a half and we did the rubbing experiment and the pressure came back down to the initial pressure within 30-some-odd minutes, 40 minutes.  Q. If, in your analysis, if after gloving the balls, the Patriots set the balls to a pressure of	12 13 14 15 16	know, however many, 17, 18, 19 balls. Just glove these five or six balls a little bit longer and then I left as they were still finishing those up. COMMISSIONER GOODELL: Okay. But if they had rubbed them for two hours, that would have changed
11 12 13 14 15 16	at 12 and a half and we did the rubbing experiment and the pressure came back down to the initial pressure within 30-some-odd minutes, 40 minutes.  Q. If, in your analysis, if after gloving the balls, the Patriots set the balls to a pressure of 2.5 or 2.6, let's say the Patriots gloved their	12 13 14 15 16 17	know, however many, 17, 18, 19 balls. Just glove these five or six balls a little bit longer and then I left as they were still finishing those up.  COMMISSIONER GOODELL: Okay. But if they had rubbed them for two hours, that would have changed the balls significantly, I presume, for you
11 12 13 14 15 16 17	at 12 and a half and we did the rubbing experiment and the pressure came back down to the initial pressure within 30-some-odd minutes, 40 minutes.  Q. If, in your analysis, if after gloving the balls, the Patriots set the balls to a pressure of 2.5 or 2.6, let's say the Patriots gloved their balls and that's the pressure they are testing for	12 13 14 15 16 17 18	know, however many, 17, 18, 19 balls. Just glove these five or six balls a little bit longer and then I left as they were still finishing those up.  COMMISSIONER GOODELL: Okay. But if they had rubbed them for two hours, that would have changed the balls significantly, I presume, for you  MR. BRADY: Yeah.
11 12 13 14 15 16 17 18 19	at 12 and a half and we did the rubbing experiment and the pressure came back down to the initial pressure within 30-some-odd minutes, 40 minutes.  Q. If, in your analysis, if after gloving the balls, the Patriots set the balls to a pressure of 2.5 or 2.6, let's say the Patriots gloved their balls and that's the pressure they are testing for and it's sitting before it goes to the referees,	12 13 14 15 16 17 18 19	know, however many, 17, 18, 19 balls. Just glove these five or six balls a little bit longer and then I left as they were still finishing those up.  COMMISSIONER GOODELL: Okay. But if they had rubbed them for two hours, that would have changed the balls significantly, I presume, for you  MR. BRADY: Yeah.  COMMISSIONER GOODELL: once you left,
11 12 13 14 15 16 17 18 19 20	at 12 and a half and we did the rubbing experiment and the pressure came back down to the initial pressure within 30-some-odd minutes, 40 minutes.  Q. If, in your analysis, if after gloving the balls, the Patriots set the balls to a pressure of 2.5 or 2.6, let's say the Patriots gloved their balls and that's the pressure they are testing for and it's sitting before it goes to the referees, that's your understanding of what happened, correct?	12 13 14 15 16 17 18 19 20	know, however many, 17, 18, 19 balls. Just glove these five or six balls a little bit longer and then I left as they were still finishing those up.  COMMISSIONER GOODELL: Okay. But if they had rubbed them for two hours, that would have changed the balls significantly, I presume, for you  MR. BRADY: Yeah.  COMMISSIONER GOODELL: once you left, right?
11 12 13 14 15 16 17 18 19 20 21	at 12 and a half and we did the rubbing experiment and the pressure came back down to the initial pressure within 30-some-odd minutes, 40 minutes.  Q. If, in your analysis, if after gloving the balls, the Patriots set the balls to a pressure of 2.5 or 2.6, let's say the Patriots gloved their balls and that's the pressure they are testing for and it's sitting before it goes to the referees, that's your understanding of what happened, correct?  A. I'm not exactly sure when the balls were	12 13 14 15 16 17 18 19 20 21	know, however many, 17, 18, 19 balls. Just glove these five or six balls a little bit longer and then I left as they were still finishing those up.  COMMISSIONER GOODELL: Okay. But if they had rubbed them for two hours, that would have changed the balls significantly, I presume, for you  MR. BRADY: Yeah.  COMMISSIONER GOODELL: once you left, right?  MR. BRADY: What do you mean?
11 12 13 14 15 16 17 18 19 20 21 22	at 12 and a half and we did the rubbing experiment and the pressure came back down to the initial pressure within 30-some-odd minutes, 40 minutes.  Q. If, in your analysis, if after gloving the balls, the Patriots set the balls to a pressure of 2.5 or 2.6, let's say the Patriots gloved their balls and that's the pressure they are testing for and it's sitting before it goes to the referees, that's your understanding of what happened, correct?  A. I'm not exactly sure when the balls were prepared prior to giving them to the referees. I'm	12 13 14 15 16 17 18 19 20 21 22	know, however many, 17, 18, 19 balls. Just glove these five or six balls a little bit longer and then I left as they were still finishing those up.  COMMISSIONER GOODELL: Okay. But if they had rubbed them for two hours, that would have changed the balls significantly, I presume, for you  MR. BRADY: Yeah.  COMMISSIONER GOODELL: once you left, right?  MR. BRADY: What do you mean?  COMMISSIONER GOODELL: This was three to
11 12 13 14 15 16 17 18 19 20 21 22 23	at 12 and a half and we did the rubbing experiment and the pressure came back down to the initial pressure within 30-some-odd minutes, 40 minutes.  Q. If, in your analysis, if after gloving the balls, the Patriots set the balls to a pressure of 2.5 or 2.6, let's say the Patriots gloved their balls and that's the pressure they are testing for and it's sitting before it goes to the referees, that's your understanding of what happened, correct?  A. I'm not exactly sure when the balls were prepared prior to giving them to the referees. I'm not quite sure of that timing, but the balls were	12 13 14 15 16 17 18 19 20 21 22 23	know, however many, 17, 18, 19 balls. Just glove these five or six balls a little bit longer and then I left as they were still finishing those up.  COMMISSIONER GOODELL: Okay. But if they had rubbed them for two hours, that would have changed the balls significantly, I presume, for you  MR. BRADY: Yeah.  COMMISSIONER GOODELL: once you left, right?  MR. BRADY: What do you mean?  COMMISSIONER GOODELL: This was three to four hours before the game, if I understood you

	REDIRECT/CALIGIORI/REISNERPage 402		REDIRECT/CALIGIORI/REISINERPage 404
1	COMMISSIONER GOODELL: You said you told them	1	COMMISSIONER GOODELL: Yeah, go ahead.
2	to continue to rub the ball a little bit. And I'm	2	Q. And what does that absence of an intersection
3	just, I'm making it up. If they rubbed it for	3	mean?
4	two hours, there still would have been an hour to	4	A. There is no way on an average basis that the
5	two hours before the referee saw it, I believe?	5	average data would have been consistent with the
6	MR. BRADY: Yeah. I'm not sure what	6	transient data for the non-logo gauge.
7	happened.	7	Q. And that's with respect to the non-logo
8	MR. KESSLER: You know what? The facts are	8	gauge, right?
9	too confused here. I'm just going to drop this	9	A. The non-logo gauge.
10	subject. I don't think it's significant to the	10	<b>Q.</b> So the extent that you said in responses to
11	overall analysis. I have no further questions.	11	Mr. Kessler that the non-logo gauge presented data
12	COMMISSIONER GOODELL: Okay. Did you finish?	12	that suggested that there was a larger window of
13	I'm sorry.	13	potential explanation of natural phenomena, that was
14	,	14	inaccurate?
	MR. BRADY: No, I did, yeah.		
15	COMMISSIONER GOODELL: I understand your	15	A. That's correct.
16	point.	16	Q. Or an error that you made? Can you explain
17	MR. BRADY: Yeah. I said finish these five,	17	what the facts are based on those graphs.
18	glove them.	18	A. The facts are, is that the average data does
19	MR. REISNER: Very briefly.	19	not overlap at all the transient curve for the
20	REDIRECT EXAMINATION BY	20	Patriots' measurement. There's a slight, little,
21	MR. REISNER:	21	tiny triangle. If you look at two standard
22	Q. Dr. Caligiuri, I want to direct your	22	deviations, if you look at that overall air, there
23	attention to page 55 of the Exponent report because	23	is a little tiny window there.
24	I think there was a little confusion in the question	24	Q. What are you referring to when you referring
25	with Mr. Kessler. And I want to direct your	25	to "the little tiny window," under the non-logo
١.	REDIRECT/CALIGIURI/REISNERPage 403	١.	REDIRECT/CALIGIURI/REISNERPage 405
1	attention to the figures showing the non-logo gauge	1	gauge?
2	and logo gauge assumptions and comparing the	2	A. Yeah. If you look at non-logo gauge, you
3	transient results.	3	look at the red line and there's kind of a reddish,
4	Can you briefly describe the significance of	4	lighter red band.
5	the intersection, if any, of the transient curve in	5	Q. And what's that band?
6	each figure with the halftime average indicated for	6	A. That is the standard deviation of the air to
7	each of the each of the Patriots' balls and the	7	two standard deviations.
8	Colts' balls?	8	Q. Do you call that an error band?
9	And as a part of that, describe the	9	A. An error band.
10	significance of the triangle created as a result of	10	<b>Q.</b> So there is no intersection between the
11	any overlap and whether that makes it more likely	11	halftime average and the transient curve with
12	that the non-logo gauge or the logo gauge yields	12	respect to the non-logo gauge, correct?
13	results that could potentially be consistent with	13	A. That's correct.
14	natural phenomena.	14	<b>Q.</b> And now describe the circumstances with
15	A. Yeah, I think there was confusion there when	15	respect to the logo gauge.
16	I think about it. If we look at the first figure in	16	A. If we look at the right-hand graph on
17	28, the non-logo gauge, this is, the transient data	17	Figure 28, it's the same overall plot, except this
18	for the Patriots is in red and the transient data	18	time it's the measurements, assuming it started with
19	for the Colts is in blue.	19	the logo gauge. And there is a window where the
20	Superimposed on that is the average values of	20	average line overlaps the transient curve.
21	the measurements for the Patriots and for the Colts.	21	So there is a window in there where, on
22	What the left-hand side of Figure 28 shows,	22	average, for if the average measurement time was
23	comparing to the average, there is no intersection	23	less than two minutes, there is a window where it
24	of the average	24	could be explained just by the environmental effect
<b>25</b>	THE WITNESS: Are you on there? Page 55.  of 172 sheets  Page 402 to	25	of the ball heating up with time. of 457 06/25/2015 03:43:11 P
1000	71 172 SUPPLS PAGE 407 for	U 4U5	UL 4-17 Ub/25/2015 U3'43'11 Pl

Case 1:15-cv-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 105 of 172 404

#### Case 1:15-cv-05916-RMB-JCF Document 28-230 Filed 08/04/15 Page 106 of 172 REDIRECT/CALIGIURI/REISNER Page 406 1 Q. And Mr. Kessler asked you some questions 1 MR. REISNER: Nothing further. 2 2 about the average time it took to measure all eleven MR. KESSLER: I am afraid your questions have 3 of the Patriots' balls. 3 cause me to ask the following. **RECROSS-EXAMINATION BY** 4 Do you have any understanding as to whether 4 there were any findings by Mr. Wells and the Paul, MR. KESSLER: 5 5 6 Weiss team as to the likely time that it took to 6 **Q.** I'm just reading what you wrote on page 5. 7 begin testing the Patriots' balls after the balls 7 With respect to the non-logo gauge, you wrote, "Had 8 were taken into the officials' locker room at 8 the non-logo gauge been used pre-game and using the 9 halftime? 9 information provided by Paul, Weiss, that the first 10 A. I believe they concluded that it most likely 10 Patriots' measurements most likely occurred no 11 11 was starting after two minutes. sooner than two minutes into the locker room period, 12 **Q.** Does two to four minutes sound correct? 12 there appears to be no realistic window in which the 13 A. Yes. 13 game-day results of both teams can be explained." 14 Q. And Mr. Kessler asked you some questions with 14 Do you see that? 15 respect to your understanding of the wetness of the 15 A. Yes. 16 **Q.** So now I'm taking away the information given 16 balls. By the way, did you, during your game-day 17 simulations, did you actually watch the game on the 17 by Paul, Weiss that the first Patriots' measurements 18 television to try to simulate the events as you saw 18 occurred no sooner than two minutes. Am I correct 19 them occur on the television? 19 that if it occurred immediately, even for the 20 A. Yes. 20 non-logo gauge, that it was possible that natural causes would explain it, correct? That's what that 21 **Q.** In the first half, just on TV, recognizing 21 22 you weren't there, did it look like it was raining 22 sentence means? 23 very much in the first half? 23 A. That sentence says that, but it's accounting 24 24 for that little, tiny triangle in the standard --A. No, it wasn't, actually. 25 25 **Q.** And do you have an understanding with respect two-sigma standard deviation. REDIRECT/CALIGIURI/REISNER Page 407 RECROSS/CALIGIURI/KESSLERPage 409 to the efforts by ball boys to keep the balls dry 1 **Q.** That is your sentence in the report, not 1 during the game? mine, right? 2 2 3 A. Yes. My understanding is with discussions 3 A. That's right. 4 with the ball boys carried out by Paul, Weiss to try 4 **Q.** And I read it accurately, correct? 5 to keep them as dry as possible throughout the 5 A. You did, and --6 **Q.** And those were the results you recorded? 6 entire game time. Q. And did you understand that meant ball boys MR. REISNER: Please let him finish. 7 7 8 sometimes put the balls underneath their slickers 8 A. And I am explaining why that it says, "Most 9 and between their slickers and their sweatshirts? 9 likely occurred no sooner than two minutes into the 10 A. Yes. 10 locker room period," that no realistic window in 11 11 **Q.** And do you have any understanding with which the game-day results can be explained. 12 respect to how frequently balls were swapped out in 12 MR. REISNER: Read the next sentence. 13 THE WITNESS (reading): "The Colts' 13 order to maintain their dryness? 14 A. Pretty frequently. 14 measurements are explainable, but the Patriots' 15 **Q.** Do you have any understanding as whether any 15 measurements are not." of the game officials who were involved in testing MR. REISNER: And the last sentence refers 16 16 17 the balls at halftime made any observations as to 17 expressly to the only overlap being in the error 18 the wetness of the balls? 18 band, doesn't it? 19 A. They said they were wetter is what I recall. 19 THE WITNESS: Yes, the only overlap between 20 **Q.** Do you recall that Clete Blakeman said he 20 the Patriots' transient curve and the Patriots' 21 thought they were damp at most and certainly not 21 game-day average is too early in the locker room to 22 waterlogged? 22 be realistic. And the overlap is only with the 23 23 A. Oh, yes, certainly. He said they were damp outer edge of the Patriots' error bands, which puts 24 but not soaked with water or anything like that, 24 that possibility way down the probability chart.

25

Q. How early would it have to be? You said "too

25

yes.

- 1 early." How early, how many minutes? What was it?
- 2 A. If you are looking at the error band now, is
- 3 what we are talking about?
- **Q.** The non-logo gauge. You just read a sentence
- 5 at your counsel's request. It would be too early.
- 6 What was too early? What was the time?
- 7 A. It was less than a minute.
- **Q.** So was it 30 seconds, 45 seconds?
- 9 A. Well, based on this graph, it looks like
- 10 about a minute, a little bit over a minute.
- 11 Q. More than a minute, not less than a minute,
- 12 now looking at the graph, right? So if they came in
- 13 and then a minute started, then it was possible,
- 14 correct?
- 15 A. No, the average time had to be within that
- 16 minute, minute and 15 seconds.
- **Q.** Right. An average, again, we went through
- 18 this before, means some could be more than a minute,
- 19 some could start 30 seconds, some could be at 45 and
- 20 you still could be within an average of a minute,
- **21** right?
- 22 A. That would be pretty hard.
- 23 Q. Have you tried to do it to see if it's
- 24 possible?
- 25 A. We actually tried to replicate the

DIRECT/STEFFEY/REISNER Page 411

- 1 measurement process, and it takes about 30 seconds
- 2 to measure the ball twice.
- **Q.** Is that result reported anywhere in the
- 4 reports?
- 5 A. I don't know if it's reported in here or not,
- 6 but I know that's what we did.
- **Q.** So did you put everything in the report you
- ${\bf 8}$   $\,$  thought was significant that the world should know
- 9 about?
- 10 A. You are asking me did we write down that
- 11 we -- it took about 30 seconds. I don't recall if
- 12 it's in the report or not.
- 13 MR. KESSLER: I don't have any further
- 14 questions.
- **15** MR. REISNER: I don't have any further.
- **16** MR. LEVY: Call your next witness.
- **17** MR. REISNER: We call Duane Steffey.
- 18 DUANE STEFFEY, called as a witness,
- 19 having been first duly sworn by a Notary Public of
- 20 the State of New York, was examined and testified as
- 21 follows:
- 22 DIRECT EXAMINATION BY
- 23 MR. REISNER:
- **Q.** Can you please state your name for the
- **25** record.

- 1 A. Duane L. Steffey.
- **Q.** And how are you employed?
- 3 A. I am a principal scientist and Director of
- 4 the Statistical and Data Sciences Group at Exponent.
- **Q.** How long have you been at Exponent?
- 6 A. Eleven years.
- **Q.** And can you please describe, Dr. Steffey,
- 8 your educational background.
- 9 A. I hold -- I took an undergraduate degree and
- 10 then Master's and Ph.D. degrees in statistics all
- 11 from Carnegie Mellon University.
- **Q.** And can you describe any academic positions
- **13** you've held.
- 14 A. For many years I was a Professor of
- 15 Statistics at San Diego State University.
- **16 Q.** During approximately what years?
- 17 A. From 1988 to, well, officially until 2006.
- **Q.** And are you a member of any statistical
- 19 associations?
- 20 A. Yes, I am. I'm actually an elected fellow of
- 21 the American Statistical Association and I also hold
- 22 membership in the Institute of Mathematical
- 23 Statistics and the Society for Risk Analysis.
- **Q.** And what was your role with respect to the
- 25 statistical significance analysis performed by

DIRECT/STEFFEY/REISNER Page 413

- **1** Exponent in this matter?
- 2 A. Well, that was the component of the
- 3 investigation for which I had lead responsibility,
- 4 given my background on the multidisciplinary team.
- **Q.** Can you please describe as briefly as
- 6 possible the statistical significance analysis
- 7 performed by Exponent and the role of the
- **8** statistical significance analysis as you understood.
- 9 A. I would be happy to. And I will be
- 10 amplifying comments made previously by both
- 11 Mr. Wells and my colleague, Dr. Caligiuri.
- 12 For us, the statistical analysis was the
- 13 point of departure for the investigation and not the
- 14 final destination. We performed the initial
- 15 analysis very early in our study to understand the
- 16 halftime data, frankly, to find out whether the
- 17 differences that were observed were in the noise
- 18 level.
- 19 And we looked at the halftime data as the
- 20 they were recorded and we analyzed those data. We
- 21 saw anomalies in the record of the halftime data
- 22 that became even clearer after we did some
- 23 experimentation. We identified four alternative
- 24 scenarios, including switching of gauges.
- **Q.** You tested all those scenarios, correct?

# Case 1:15-cv-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 108 of 172

- 1 A. We tested all those scenarios and we
- 2 accounted for the possibility that the balls were
- 3 set pre-game with both the logo gauge and with the
- 4 non-logo gauge. We accounted for that in our model
- 5 with a gauge effect and said after accounting for
- 6 the possibility that either gauge was used pre-game,
- 7 the difference in average pressure drop that we see
- 8 between the Colts' and the Patriots' balls were
- 9 statistically significant.
- **10 Q.** Now, Professor Steffey, Dr. Steffey, you were
- 11 here during Dean Snyder's testimony, correct?
- 12 A. Yes.
- **Q.** And you heard him describe three key findings
- 14 or criticisms of the Exponent work, correct?
- 15 A. Yes.
- **16 Q.** Key finding 1 or criticism identified by Dean
- 17 Snyder was that, "Exponent's statistical analysis of
- **18** the difference in average pressure drops is wrong
- **19** because it ignores timing."
- 20 Do you have a reaction or response to that
- 21 criticism?

2

- 22 A. Yes. I think that criticism is without
- 23 foundation.
- **24 Q.** And why?
- 25 A. Well, for several respects. First of all, it

#### DIRECT/STEFFEY/REISNER Page 415

- 1 mischaracterizes the purpose of the statistical
  - analysis. You need to remember that this analysis
- ${\small 3} \quad \text{originally was done very early in the investigation} \\$
- 4 before we had done extensive experimentation to
- 5 understand how important timing was.
- 6 We were just looking at the data saying, does
- 7 this average pressure drop differ for whatever
- 8 reason? Is there some factor that the difference we
- 9 are seeing, is it meaningful and is it worth
- 10 exploring further, just from a purely empirical look
- 11 at the data? So that's point number 1.
- 12 Point number 2 is that as it became clearer
- 13 through the experimentation that the timing was, we
- 14 saw a pronounced timing effect in the experiments,
- 15 we went back to the halftime data and said, well,
- 16 you know, and frankly, I had looked at the data and
- 17 I didn't see an obvious time trend in the record of
- 18 measurements.
- 19 But I said let's be sure. And we don't know
- 20 the exact clock time of when the measurements were
- 21 taken, but we do know the order in which they were
- 22 taken. Everybody has testified, look, they were
- 23 measured in the order in which they were recorded,
- 24 eleven Patriots' balls measured by two officials
- 25 with two gauges and then at some point later, either

- 1 immediately after or after a delay, the four Colts'
- 2 balls were measured.
- 3 So we had the order of measurement, which is
- 4 essentially a proxy for time. Because there is, as
- 5 Dr. Caligiuri indicated, it takes some time to go
- 6 through the process of measuring each ball. And so
- 7 obviously, you know, balls later in the order, 14 or
- 8 15 were measured at times later than balls measured
- 9 at two or three. So it's a proxy for clock time
- 10 without having to impose an assumption about what
- 11 clock time was.
- **Q.** Does it affect your view with respect to the
- 13 appropriateness of the work done by Exponent or the
- 14 conclusions reached by Exponent when you take into
- 15 consideration the criticism identified by Dean
- 16 Snyder?
- 17 A. Not at all, not at all.
- 18 Q. And why is that?
- 19 A. Well, one point that -- I think the implied
- 20 claim is that there's an adjustment that's being
- 21 advanced by Dean Snyder and his team and that if you
- 22 make that adjustment, that timing explains the
- 23 difference in average pressure drop, okay.
- 24 There are a couple of important points to
- 25 keep in mind. The average pressure drop is just one

### DIRECT/STEFFEY/REISNER Page 417

- 1 part of the investigation to look at. Variability
- 2 is another. And as we looked at -- re-looked at the
- 3 halftime data later, after the experimentation is
- 4 done, just asking whether the sequence of
- 5 measurements makes sense, there is a claim that what
- 6 Dean Snyder and his team have done is to adjust for
- 7 timing.
- 8 Now, understand that my comments are going to
- 9 be based on what I would regard as a preliminary
- 10 analysis of PowerPoint slides that I got a few days
- 11 ago. So I don't have a lot of extensive
- 12 documentation, and a lot of the technical details
- 13 weren't really drawn out in the testimony today.
- 14 But I was able to replicate nearly exactly
- 15 the p-values that are reported by Dean Snyder in his
- 16 slides, taking our significance finding of .004 and
- 17 then imposing adjustments under three cases.
- 18 Case 1, as best as I can tell involves
- 19 looking at the transient curves and saying, well, if
- 20 I think about the average time at which the Colts'
- 21 balls were measured, and I shift them to correspond
- 22 to the average time at which the Patriots' balls
- 23 were measured, what is the psi effect? And in his
- 24 Case 1, it looks like it's about .31 psi.
  - So I believe what he did is to add .31 to the

25

measured pressure drop for the Colts' balls to each
 of the Colts' balls, same numerical value to each of
 the Colts' balls and saying if they had been
 measured earlier, they would have seen a larger
 pressure drop.

Now, I have got a couple of problems with that. The main problem is that this is claimed to be an adjustment for timing. But remember that eleven Patriots' balls were measured. And if it takes roughly 30 seconds between the measurements of balls, there's at least four or five minutes that elapse between the measurement of the first Patriots' ball and the measurement of the last Patriots' ball.

Dean Snyder's adjustment for timing doesn't make any adjustment to the Patriots' data. So to claim that there is an adjustment for timing I think is inaccurate.

Now, following that logic, though, I looked at how the p-value is calculated. And, again, the technical details of this aren't really transparent. But because I was able to use two different approaches and get values very close to the reported p-values, I believe what was done is to take, again, and analyze the difference of differences.

### DIRECT/STEFFEY/REISNER Page 419

The two ways I did it were to basically redo the -- what we described -- what has been described, accurately described as the linear mixed effects model. That's our main model in the appendix. And then I also did a simpler analysis just looking at the logo gauge separately and the non-logo gauge data separately, and doing what is called a two-sample t-test to compare the differences in the average drops for the Patriots and the average drops for the Colts.

Now, what wasn't acknowledged or discussed here is that in order to replicate -- nearly replicate the p-values that are reported here, there is another implicit assumption, which is that the variability in the Patriots data and the Colts data are the same, and that the t-test, for example, was carried out with what's called a pooled variance. So you are assuming that the Colts' data is as variable as the Patriots' data and you use that.

Now, if you do that, then you get a p-value a little bit above five percent. It's about six and a half percent. Interestingly, you can do that test without imposing that assumption. You can do the comparison and use the variability in the Patriots data to estimate the variability and the uncertainty

in the Patriots average drop. You can use the
 Colts' data to estimate variability in the Colts
 average drop.

And if you do that, the p-value that you

5 calculate under this Case 1 adjustment is actually
6 below two percent. So it remains statistically
7 significant at the five percent level. And that's,
8 frankly, consistent with what we were saying.
9 Timing helps to explain the results we see at
10 halftime, but it's not the whole story.

And similarly, if you take Case 2 which is making a larger adjustment, the reported p-value's in the neighborhood of .2, a little bit above .2.

Again, if you do the analysis without imposing an equal variances assumption, you get a p-value that's below ten percent. So it's statistically significant at the ten percent level, not at the five percent level.

The other important point in thinking about statistical significance is that it's not a black or white line at .05. And there's no direct way that you can connect .05 certainly to a legal standard for preponderance of evidence. So it's not that if you are .04, it's more likely than not, and if you are .06, it's less likely than not. We have to be

### DIRECT/STEFFEY/REISNERPage 421

clear about that. So for all of those reasons, I
 think that first finding is without foundation.

**Q.** I think this is the last question. Is it

4 fair to say that what Dean Snyder purported to do is

5 not really a statistical significance analysis to

look at the likelihood of chance explanation the

7 variation, but introduce into his analysis one of

the potential explanations for the deviation?

9 A. What we didn't do is we didn't go back. As I
10 said, we went back to the halftime data and looked
11 for a time effect there. We didn't see it. We
12 didn't alter the halftime data and reanalyze the
13 data based on assumptions that we weren't in a
14 position to validate.

And I think that, you know, the conclusion that we came to in part is that, you know, the arithmetic doesn't add up. If you look at the first Patriots' measurement, whether it's made by the logo gauge or the non-logo gauge, the very first one, it's higher than the last four Patriots' footballs, which are being measured at least three minutes, probably later.

And so the actual, if you look at the sequence of Patriots' measurements, and this is the point we make in the report, it's going exactly in

- 1 the wrong direction compared to what we know to be
  - the timing effect. And so the timing effect goes in
- 3 the wrong direction. The ball conditions that we
- 4 tested experimentally we know can affect the
  - measured pressure by no more than about .3 psi.
- 5 6
  - And yet, you are seeing differences in
- 7 pressure that go well beyond -- they go opposite the
- 8 timing effect and they go well beyond what's
- 9 attributable to differences in wet versus dry balls.
- 10 Q. And did you also review a commentary or
- 11 criticisms by either AEI and Professor MacKinnon
- 12 with respect to the Exponent work?
- 13 A. Yes.
- 14 Q. And do you have any responses or reactions to
- 15 the observations or commentary made by each of those
- 16 reports?

2

- 17 A. They are similarly without foundation.
- 18 Q. And why?
- 19 A. Can we take them in turn?
- 20 Q. Yes, please.
- 21 A. The AEI report which has already been
- 22 discussed, I mean, I would really try to amplify
- 23 what's already been said about the AEI report.
- 24 Q. Please.

5

25 A. The notion that we made a mistake and we made

### DIRECT/STEFFEY/REISNER Page 423

- an error, what's been characterized in the media as 2 a freshman statistics mistake, is just wrong. The
- 3 mistakes that AEI attributes to us, in fact, are
- 4 theirs. They weren't able to replicate our results.
  - The first part of their report says we can't
- 6 reproduce our results. They misidentified the
- 7 statistical model we were using. We weren't using a
- 8 multiple regression model. We were using what's
- 9 called a linear mixed effects model.
- 10 They were ultimately able to replicate most,
- 11 but not all of our estimates. I spent a little time
- 12 with that report and I finally figured out what
- 13 their mistake was. They couldn't match our
- 14 estimates of gauge effects.
- 15 And the reason was that when they were
- 16 thinking about gauge effects, they were taking the
- 17 average -- the simple answer is that they were using
- 18 a weighted average to estimate gauge effects, and
- 19 they should have been using an unweighted average.
- 20 What do I mean by that? Their estimates of
- 21 gauge effects were looking at the average of all the
- 22 fifteen measurements that were taken by each gauge.
- 23 Now, eleven of those were Patriots' measurements and
- 24 four of them were Colts' measurements. But we had
- to consider the possibility of team effects in the

- 1 data.
- 2 And statistical theory tells us that if you
- 3 have got a model that has both team effect and gauge
- 4 effect, to properly account for the team effects,
- 5 the way you estimate the gauge effects is not to
- 6 average all of the data because you got more
- 7 Patriots data than Colts data, because that's how
- 8 the halftime measurements were done.
- 9 What you have to do is calculate an average
- 10 for each gauge for the Patriots. And, for example,
- 11 for the logo gauge, you have to calculate the logo
- 12 gauge average for the Patriots and you have to
- 13 calculate the logo gauge for the Colts, get those
- 14 two averages and then take the averages of averages.
- 15 And had AEI done that, they could have
- 16 replicated our results. Other statisticians 17
- understood what we were doing and effectively were
- 18 able to replicate our results. So that point was 19 wrong.
- 20 We talked earlier about the fact that they
- 21 then go on to present findings purporting to show
- 22 that if the logo gauge was used pre-game, that you
- 23 can again get a p-value above .05. Well, first of
- 24 all, that's a limited victory in that doesn't really
  - speak to the "more likely than not" legal standard.

## DIRECT/STEFFEY/REISNERPage 425

- 1 But if you look at their model, as
- Dr. Caligiuri pointed out, the way they got there is
- 3 to include an order effect, which is essentially the
- 4 same order effect that we went back and put into the
- 5 model and said it's not statistically significant.
- 6 Not only is it not statistically significant, but
- 7 the coefficient for that term doesn't make physical
- 8 sense.

25

- 9 The order coefficient that they have in the
- 10 model is positive and they are looking at pressure
- 11 drop and how does pressure drop change. And so
- their model, the order effect that they put in, 12
- 13 which has the -- the order effect that they put in
- 14 basically is saying that pressure drop should
- 15 increase with time.
- 16 And again, that doesn't make physical sense 17 because the balls are getting back to equilibrium
- 18 and the pressure drop from where you started
- 19 pre-game should be getting closer. What happens if
- 20 you remove that order term? Well, as Dr. Caligiuri
- 21 mentioned, and I think it's worth emphasizing, if
- 22 you take out that nonsignificant order effect, guess
- 23 what happens to the p-value? It drops below .05
- 24 again, and it basically renders void the claim that

you can get -- you can get nonsignificant results

25

- 1 depending on which logo gauge is used. And so I 2
  - think those are the main points that I think I
- 3 wanted to make in response to the AEI report.
- 4 I think Dr. Caligiuri tackled the other part
- 5 of the AEI report on the misinterpretation of the
- 6 Ideal Gas Law. And with regard to Dr. MacKinnon, I
- 7 think the only comment that's probably worth
- 8 emphasizing is that he was citing evidence that
- 9 there was a lot of measurement error.
- 10 In fact, I think Dean Snyder referred to
- 11 measurement error. As Dr. Caligiuri pointed out,
- 12 when we studied the gauges, the gauges don't always
- 13 read the same thing; we know that from the halftime
- 14 data. One gauge may read higher or lower than
- 15 another. And we studied 50 gauges made by the
- 16 same -- essentially they were the same in
- 17 manufacturer to the non-logo gauge.
- 18 They don't all read the same from one
- 19 another. We didn't read any that read as high as
- 20 the logo gauge did. Most of them were pretty
- 21 well-calibrated to the master gauge. But if you
- 22 were using that gauge repeatedly, you got consistent
- 23 measurements at those nominal pressure levels.
- 24 And so if you are looking at differences and
- 25 you are using the same gauge to make measurements of

## CROSS/STEFFEY/KESSLER Page 427

- 1 difference, you are getting a good measure of
  - difference. So if you are looking at, if you are
- 3 using one gauge pre-game and you are using that same
- 4 gauge at halftime, you are getting a pretty accurate
- 5 measure of what the pressure drop was.
- 6 So the notion that differences in pressure
- 7 drop could reflect gauge measurement error is simply
- 8 not supported by the extensive experimentation that
- 9 we did and reported in our report.
- 10 Q. Was there anything in the AEI report or the
- 11 MacKinnon commentary that made you question the
- 12 tests undertaken by Exponent or the conclusions
- 13 reached by Exponent?
- 14 A. No.

2

- 15 MR. REISNER: No further questions.
- 16 MR. KESSLER: I will try to keep this short
- 17 and simple.
- 18 CROSS-EXAMINATION BY
- 19 MR. KESSLER:
- 20 **Q.** Despite how complex I think this testimony
- 21 was, Mr. Steffey, you agree, do you not, that you
- 22 found that timing was an important factor? I think
- 23 you said "very important factor" in your direct
- 24 testimony?
- 25 In -- well, I think I would stand by what we

- 1 said in the report. In terms of explaining, if we
- 2 ask the question what factors can we vary that have
- 3 the greatest impact on the ball pressure that we
- 4 measure, if the ball is in a dynamic state in that
- 5 the ball is either warming or cooling, that the
- timing of measurement is very important. 6
- 7 Q. Okay. So that was a way of saying "yes,"
- 8 correct? I'm trying to move this along. You agree
- 9 timing was a very important factor, right?
- 10 A. Well, I would just like to put it in the
- 11 appropriate context.
- 12 Q. I know, but we are here very late, so if you
- 13 can answer "yes," "yes" would be good.
- 14 Let me go to the next thing. Take a look at
- 15 your Appendix A. This is your statistical model
- 16 that you presented to the world, correct?
- 17 A. Yeah. Well, this is the model that explains
- 18 how we conceived of analyzing the halftime data.
- Q. There is no other statistical model presented 19
- 20 in Appendix A? There's only one, correct?
- 21 A. In terms of the general structure of the
- 22 model, yes, that's right.
- 23 Q. So there is not an Appendix B, C? This is
- 24 the model you presented, this one-structured model,
- 25 right?

### CROSS/STEFFEY/KESSLER Page 429

- 1 A. Correct. We've presented that as the
- 2 structure with which we used to analyze the halftime
- 3 data under multiple scenarios about the data
- 4 themselves.
- 5 **Q.** Okay. This one-structured model that you
- 6 chose to present as your only structured model in
- 7 this appendix and in the entire report, okay, has no
- 8 timing variable in it, correct? That was testified
- 9 by Mr. Caligiuri, right? There's no timing variable
- 10 in this one-structured model that you chose to
- 11 present, correct?
- 12 A. We didn't put it in the final form of the
- 13 model because we put in a term to account for
- 14 timing. And found it wasn't significant for the
- 15 halftime data as recorded.
- 16 Q. Okay. So you didn't put it in? That's
- 17 another way of saying "yes," right? It's not in
- 18 there, right? I will get to why you didn't put it
- 19 in. Would you just give me it's not in the model?
- 20 A. There's no term in there that says time 21 effect or order effect.
- 22 **Q.** And when you say, "There is no term," there
- 23 is no statistical variability in your regression
- 24 analysis that would have time as a factor affecting
- 25 the dependent variable, correct?

# Case 1:15-cy-05916-RMB-JCF Document 28-230 Filed 08/04/15 Page 112 of 172 CROSS/STEFFEY/KESSLERPage 430

- 1 A. That's correct. And just for --
- **Q.** "That's correct" will be good.
- 3 A. I am referring to the equation that's about a
- 4 third of the way down on Page A3.
- **Q.** And that's the only equation you present for
- 6 your structured model, right? There's no other
- 7 equation I'm missing in Appendix A that does have a
- 8 timing variable, right?
- 9 A. Well, there's another version of that
- 10 equation that's got a lot of Greek letters in it
- 11 later on, and that's for the more technical readers.
- 12 But there's no other equation either in prose or in
- 13 symbols that have a timing effect in it. That's
- 14 addressed in the footnote.
- **Q.** Even if I could understand the more technical
- 16 one, I won't find any timing variable in that in
- 17 Appendix A, right?
- 18 A. That's correct.
- **19 Q.** Okay, thank you.
- Now, you then said the reason you didn't put
- 21 in a timing variable is because you found it was
- 22 statistically insignificant, and that's what your
- 23 Footnote 49 says, right?
- 24 A. That's correct.
- 25 Q. Now, it's completely the opposite of

### CROSS/STEFFEY/KESSLER Page 431

- 1 everything else you found, that timing was the most
- 2 significant variable to conclude that it also is a
- 3 statistically insignificant variable; is that
- 4 correct or not?
- 5 A. I'm not sure I followed the last part of
- 6 that.
- **7 Q.** Okay, let me try again.
- 8 A. Try again.
- **9 Q.** You did all this work that said timing was
- **10** the most significant variable affecting ball
- 11 pressure in your analysis?
- 12 A. Yeah, mm-hmm.
- **Q.** And then you are saying the reason you didn't
- **14** put timing into the analysis is because when you
- 15 tested ball order, you found it was an insignificant
- 16 variable, correct? That's what you testified?
- 17 That's what Footnote 49 says, right?
- 18 A. Yes. I think what Footnote 49 is pointing to
- 19 is an inconsistency between the results that we
- 20 demonstrated experimentally, which were consistent
- 21 with physical theory and the observed pattern in the
- 22 halftime data. They don't match.
- **Q.** Right. So your halftime data analysis does
- 24 not match with all the other studies you did that
- 25 said that timing was significant? The results are

- 1 inconsistent, right?
- 2 A. That's right. And one thing to keep in mind
- 3 is that the experimental results that we generated
- 4 used balls that were at the same starting pressure.
- **Q.** Now, let me ask you this. You mentioned that
- 6 you tried to replicate Dr. Snyder's work, correct?
- **7** You believed you were able to do that?
- 8 A. I believe I was able to do that.
- **9 Q.** And you pointed out that by doing some
- 10 variability analysis for the second measure, you
- 11 could achieve a statistical significance that's
- 12 above ten percent statistical level, not a five
- **13** percent, right?
- 14 A. The p-values I calculated were between five
- 15 and ten percent.
- **16 Q.** It would not be significant at the
- 17 five-percent level, right?
- 18 A. That's correct. And again, the statement
- 19 applies only to the difference in mean pressure
- 20 drops and isn't addressing the anomalous
- 21 fluctuations that are in the Patriots halftime data.
- **Q.** It is true, is it not, that Exponent chose in
- 23 this analysis to make five percent the relevant
- 24 statistical significance level? That's Exponent's
- 25 choice, correct?

1

### CROSS/STEFFEY/KESSLERPage 433

- A. Well, yes. I think as others have testified
- 2 earlier, that is a standard level to use as a
- 3 threshold for statistical analysis.
- **Q.** And you would agree with that, correct?
- 5 A. Well, yes, that's the threshold that I
- 6 instinctively applied.
- **Q.** Professor Marlow agreed with that, who was
- **8** supervising you?
- 9 A. I think we were in general agreement with
- 10 that.
- 11 Q. No one disagreed and said let's use ten
- 12 percent? Everyone said let's use five percent?
- 13 A. It's a common threshold and to use it in
- 14 evaluating halftime data was reasonable.
- **Q.** And, in fact, five percent is the measure
- **16** that Exponent uses in almost all the statistical
- 17 studies as a matter of practice; isn't that correct?
- 18 A. As a matter of practice. I would just
- 19 qualify that by saying remember, in a real problem
- 20 where you have to make a decision, there is not
- 21 necessarily a huge difference between .045 and .055.
- 22 That's something that you have to think about as a
- 23 practical, real-world decision-maker.
- **24 Q.** You mentioned civil cases in which you have
- 25 testified, right?

8

- 1 A. Yes.
- 2 Q. And you talk about the preponderance of
- **3** evidence there, correct?
- 4 A. Correct.
- **Q.** Okay. Are you familiar with the fact from --
- 6 how many cases have you testified in?
- 7 A. At trial or in depositions?
- **8 Q.** In any way, trial?
- 9 A. Trial, a handful of times; maybe 30
- 10 depositions.
- **Q.** Are you familiar with the fact that even in
- 12 the civil case with a preponderance of evidence like
- 13 here, if the Court finds that you haven't met a
- 14 relevant level of statistical significance, what
- **15** happens to the study; does it get admitted into
- **16** evidence or is it excluded from evidence, in your
- **17** experience?

18

19

20

21

22

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

- A. I don't think I can answer that as a general proposition. And you have to think about the context in which we were doing this analysis. We did this analysis very early in the study. We were looking at whether the mean pressure drop was statistically significant. We also looked at
- statistically significant. We also looked atwhether the variability between the Patriots'
- 25 measurement and the Colts' measurement were

CROSS/STEFFEY/KESSLER Page 435

1 statistically significant.

And the other thing that is known in general statistical practice is that if you have a finding of non-significance and that finding is based on a relatively limited amount of data, you have to be somewhat cautious about taking that as evidence of no difference, because when statisticians encounter that situation, what they think about is what they call the power.

They are saying, well, do I have enough data so that if the difference actually existed and it was appreciable in magnitude that I would have enough data, that I would have a high probability of detecting that?

And so, findings of non-significance have to be treated, especially in situations with small sample sizes, with a little bit of circumspection as opposed to findings of significance.

If you get a finding of significance with a small amount of data, that's generally an indication that you have a pretty strong effect and it's strong enough to manifest itself even with a relatively limited amount of data.

**Q.** Small data sets are less reliable than big

**25** data sets, correct?

- 1 A. I don't think I said that.
- **Q.** Is that true?
- 3 A. You have to put that statement in context.
- **Q.** Is it true, yes or no? How about answering
- 5 that? Before giving me the explanation for why, is
- **6** it true that, in general, small data sets are less
- **7** reliable than bigger data sets?
  - MR. NASH: Objection.
- 9 COMMISSIONER GOODELL: He asked you a
- 10 question. Answer the question.
- 11 A. You have to explain what you mean by
- 12 "reliable." If you are making a decision based on
- 13 whether or not an effect is significant and you do
- 14 an analysis with a small data set and that effect is
- 15 still significant, then your data set was small, but
- 16 it was large enough for you to discover that effect
- 17 and make a decision on it. And having more data
- 18 wouldn't affect the decision you make.
- 19 Now, if you are trying to estimate something
- 20 to a certain margin of error, is it true that you
- 21 get a smaller margin of error if you have more data?
- 22 Well, yeah, it is. Is that important or not? I
- 23 think it depends on the context.
- **Q.** Is this one of the smallest data sets you
- 25 have ever worked in on any of your statistical

CROSS/STEFFEY/KESSLER Page 437

- 1 analyses in all the cases you have testified in? Is
- 2 this one of the smallest ones?
- 3 A. No, I wouldn't say it stands out as being
- 4 exceptionally small. It is small. Obviously, four
- 5 observations for the Colts isn't that many, but it's
- 6 certainly, you know, there is information there.
- **Q.** I will ask you this: Have you ever done a
- 8 case you can recall where you had four observations
- **9** was your entire data set and that's all, or less?
- **10** And if you can't identify, "no."
- 11 A. I have reviewed evidence that has been put
- 12 forth where people have taken one or two
- 13 measurements and tried to reason on that basis.
- 14 Q. And you think that's a proper thing for a
- **15** statistician to do with one or two observations?
  - A. Typically, it is not. Typically it is not
- 17 because there is uncertainty. But if you had a
- 18 situation where there was no variability, you had a
- 19 population that had no variability in it and you
- population that had no randomy, in reality of
- 20 wanted to learn about that population, one
- 21 measurement would be enough because there is no 22 variability.
- MR. KESSLER: I don't have any further
- 24 questions. You can keep going if you want, but I'm
- **25** done.

16

#### Case 1:15-cy-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 1:14 of 172 Page 440 1 MR. REISNER: Professor Steffey, one 1 University. 2 2 question. **Q.** What is your current title at Princeton? 3 REDIRECT EXAMINATION BY 3 A. I am the Evans Crawford 1911 Professor of 4 MR. REISNER: 4 Physics. 5 Q. Is there any statistical principle that 5 Q. How long have you been at Princeton? 6 A. 31 years. requires the inclusion or introduction of the type 6 7 of timing variable described by Dean Snyder in order 7 Q. And other than your current position, have 8 for a statistical significance analysis to be valid? 8 you held any other positions at Princeton 9 9 A. Well, no, especially not in this context. I University? 10 guess I would respond in two ways. We were doing 10 A. I was department chair. 11 that analysis before we did a lot of transient 11 **Q.** During what period of time were you 12 experiments where we understand exactly what the 12 department chair? 13 magnitude of the timing effect was. 13 A. 2001 to 2008. 14 And the second thing is, I think there are 14 **Q.** When you refer to "department chair," which 15 flaws with the approach to adjustment for timing 15 department are you referring to? 16 that Dean Snyder and his team did. They basically, 16 A. The physics department. 17 as near as I can tell, just altered the Colts' data 17 Q. Professor Marlow, do you have any areas of 18 by shifting all the numbers down and didn't really 18 particular emphasis of academic research and 19 address the time that elapsed in the Patriots' 19 expertise? 20 20 measurements, and frankly, the anomalies in the A. Yes. I'm an experimental particle 21 Patriots' data when you look at it sequentially. 21 physicists. 22 22 Q. What does that mean? And when we first looked at variability and 23 we said, gee, when we look at the variability in the 23 A. Well, particle physics studies -- it's also 24 **Colts halftime measurements and the Patriots** 24 called subatomic physics. It studies the 25 25 halftime measurements, although the Patriots' data constituents of matters, the interactions between DIRECT/MARLOW/REISNER Page 439 DIRECT/MARLOW/REISNER Page 441 1 is more variable than the Colts, it's not 1 them. This is research we do at the Large -- right 2 statistical significant, that might be because of now, the experiment I'm working on is at the Large 3 3 Hadron Collider at CERN. small sample sizes for the Colts. 4 But then we did the experiments and we 4 Q. And to what extent is the discipline of understood the importance of timing and we looked at 5 5 statistics relevant to your work? 6 6 that data again, looking at the sequential nature of A. It's quite relevant. We don't study 7 the Patriots' observations and said, look, we can't 7 statistics, per se, but we depend on statistical 8 explain this, either by timing or ball conditions. 8 analyses a lot in our work. 9 MR. REISNER: Nothing further. 9 **Q.** And what was your role with respect to the 10 MR. KESSLER: Nothing further from me. 10 analyses, experiments and other work done by 11 MR. REISNER: We call Professor Dan Marlow. 11 Exponent in this case? 12 12 A. Well, one way to describe it is, I guess I THE WITNESS: Thank you. 13 13 was the designated skeptic. I looked over what MR. REISNER: Last witness. 14 COMMISSIONER GOODELL: Welcome. 14 Exponent was doing. I thought about the problem a 15 **DANIEL MARLOW**, called as a witness, 15 lot myself, just probed when they did an analysis, I 16 having been first duly sworn by a Notary Public of 16 would do it myself. 17 17 the State of New York, was examined and testified as When they made measurements, I would look at 18 follows: 18 the data, say, does this make sense? Does this 19 DIRECT EXAMINATION BY 19 agree with what I would expect from theory? And 20 MR. REISNER: 20 then I also spent a lot of time thinking about 21 Q. Can you please state your name for the 21 things that weren't included, trying to think about that. 22 record 22 23 23 A. Daniel R. Marlow. **Q.** How frequently did you interact with 24 24 Exponent? **Q.** And how are you employed, sir? I am a Professor of Physics at Princeton 25 It was roughly once a week, maybe sometimes a

# Case 1:15-cy-05916-RMB-1CF Document 28-230 Filed 08/04/15 Page 115 of 172

- 1 little bit more, sometimes a little bit less during
- 2 the, you know, main, most intensive part of the
- 3 investigation.
- **Q.** And can you just describe the form in which
- **5** those interactions took.
- 6 A. Well, there were mostly phone calls where
- 7 Exponent would come and report what they had
- 8 observed. Usually there would be a document that
- 9 preceded the phone call. I would spend some time
- 10 studying it. Again, I would do my own calculations
- 11 to see does this make sense, you know, does this
- 12 look like solid work?
- **Q.** And what role, if any, did you play in the
- **14** development by Exponent of the statistical
- **15** significance model they used?
- 16 A. Well, I took a much simpler approach, which
- 17 gave it essentially equivalent results. Again, and
- 18 there is a lot of confusion on this point, it was
- 19 never an intention to do anything other than to say
- 20 are we wasting our time here by even looking at
- 21 this?
- 22 If we had found initially that there was no
- 23 difference between the Patriots' and the Colts'
- 24 balls, speaking for myself, I would say forget about
- 25 it. There's just no point in studying this further.

### DIRECT/MARLOW/REISNER Page 443

- 1 But we found a large statistical significance.
- **Q.** And what role, if any, did you play in the
- 3 development of the transient experiments and
- 4 game-day simulations used by Exponent?
- 5 A. Well, that was more along the lines of
- 6 looking at what they did. Before -- before any
- 7 measurements were made, I had actually realized that
- 8 this transient effect would be potentially
- 9 important.
- 10 What I didn't know basically was how quickly
- 11 the footballs would warm. But I thought that was
- 12 something we definitely had to look into, and it
- 13 turns out it was an important effect.
- **14 Q.** Did Exponent share data with you in the
- **15** course of their experimentation?
- 16 A. Absolutely.
- 17 Q. And did you discuss that data, its
- 18 significance, and follow-up that should take place?
- 19 A. Yes.
- **Q.** Do you have a view with respect to the
- 21 appropriateness of the statistical significance
- 22 model and analysis used by Exponent?
- 23 A. For the purpose that it was put to, it was
- 24 fully appropriate.
- **Q.** And do you have a view as to the

- 1 appropriateness of the transient experiments and the
- 2 game-day simulations used by Exponent?
- 3 A. Yes.
- **4 Q.** What is your view?
- 5 A. Perfectly good. I was, especially with the
- 6 simulation experiments, I was, frankly -- "amazed"
- 7 may be overstating it, but I was highly impressed
- 8 with the level of detail, thought, planning and
- 9 execution. It was really a first-class piece of
- 10 work.
- **11 Q.** Did you review the report prepared by
- 12 Exponent?
- 13 A. I did.
- **14 Q.** And did you review carefully both the
- 15 substance of the report and the conclusions set
- **16** forth in the report?
- 17 A. Yes, I went through it. There were a couple
- 18 of drafts. I went through all of them and looked at
- 19 it for, obviously, for any mistakes, and then also I
- 20 was looking is this presented in the clearest
- 21 possible way?
- **Q.** And do you have a view as to the conclusions
- 23 reached by Exponent as set forth in its report?
- 24 A. Yes.
- **Q.** What is your view about their conclusions?

### DIRECT/MARLOW/REISNERPage 445

- 1 A. I believe the conclusions are correct. And
- 2 there are uncertainties, but those are very clearly
- ${\bf 3}$   $\;$  laid out in the report. And we talked earlier about
- 4 these transient curves, the Figure 28. And I think,
- 5 I know it could be difficult for people to ponder
- 6 graphs and try to understand what they mean.
- 7 But if one takes the trouble, then it's quite
- 8 clear. I think that captures not only the central
- 9 result, but also the uncertainties.
- **10 Q.** Were you here during the testimony of
- 11 Dean Snyder?
- 12 A. Yes.
- **Q.** Did you hear his description of his three key
- 14 findings or criticisms?
- 15 A. Yes.
- **16 Q.** Directing your attention to his first key
- 17 finding or criticism, "Exponent's statistical
- 18 analysis of the difference in average pressure drops
- **19** is wrong because it ignores timing."
- **20** Do you have a reaction or response to that
- 21 criticism?
- 22 A. Well, there were never any claims that timing
- 23 was in it. There was a lot of confusion on this
- 24 point. But it's -- how do I put this? I think it's
- 25 quite clear what Exponent did, what the philosophy

- of the analysis is. And I don't understand how
   people have so much trouble understanding that.
- **Q.** And directing your attention to key finding
- 4 or criticism number 2, "Exponent improperly draws
- 5 conclusions based on variability and halftime
- **6** pressure measurements despite conceding that the
- 7 variability is statistically insignificant."
- 8 Do you have a response or reaction to that
- 9 criticism?
- 10 A. Yeah. It's a kind of very pedantic,
- 11 technical point. And it also, again, misses the
- 12 basic point. The reason that first result is not
- 13 statistically significant, I point out it is
- 14 actually -- it's very suggestive. There is a pretty
- 15 clear effect there.
- 16 It just doesn't quite rise to this or synch
- 17 to this .05 level, but that doesn't prove it's not
- 18 there. And you can look at other data and that's
- 19 essentially what Exponent did, is they looked at
- 20 their simulation data. And what struck me was in
- 21 all the data sets I looked at, they all consistently
- 22 had a much lower variability than what we saw in the
- 23 Patriots' balls.
- **Q.** And directing your attention to key finding
- 25 or criticism 3, "If the logo gauge was used to

### DIRECT/MARLOW/REISNER Page 447

- 1 measure the Patriots' balls before the game, then
- 2 eight out of eleven were above Exponent's expected
- 3 outcome."
- 4 Do you have a reaction or observation,
- **5** reaction or response to that criticism?
- 6 A. Well, I think, as has been pointed out, there
- 7 was a lot of discussion of the logo versus non-logo
- 8 gauge. I think there's ample evidence that the
- 9 non-logo gauge is what was used. This business of
- 10 whether or not it was corrected is such a tiny
- 11 detail.
- 12 I mean, obviously, if you say the logo gauge
- 13 was used, then it's not a small correction, but it's
- 14 a tiny correction if you say the non-logo gauge is
- 15 used. And furthermore, that analysis ignores
- 16 something that everyone agrees on, and that is that
- 17 as the balls warm up, their pressure goes up. So
- 18 it's just a little bit off topic.
- 19 Q. In other words, it freezes the balls at the
- 20 outdoor measurement?
- 21 A. Freezes the balls, yes.
- **Q.** And based on the criticisms or findings
- 23 described by Dean Snyder, did it affect your views
- 24 with respect to the appropriateness of the work done
- **25** by Exponent or the conclusions reached by Exponent?

- 1 A. No.
- **Q.** And have you had an opportunity to review
- 3 each of the AEI reports and the MacKinnon report
- 4 that were described earlier?
- 5 A. Yes.
- **Q.** And after reviewing the commentary on those
- 7 reports, did that affect your views with respect to
- 8 the appropriateness of the work done by Exponent or
- **9** the conclusions reached by Exponent?
- 10 A. No.

11

- MR. REISNER: Nothing further.
- 12 CROSS-EXAMINATION BY
- **13** MR. KESSLER:
- **14 Q.** I will try my best -- so far I have been
- 15 failing -- to try to ask questions. If you can just
- **16** answer very simply without explanations, I hope you
- 17 will try to work with me.
- 18 A. As long as you don't editorialize.
- **19 Q.** You are an expert in experimental particle
- 20 physics?
- 21 A. That's correct.
- **Q.** Will you agree with me that the Exponent
- 23 report is not -- doesn't have anything to do with
- 24 experimental particle physics? Will you give me
- 25 that?

### CROSS/MARLOW/KESSLER Page 449

- 1 A. There are common techniques.
- **Q.** Does it have anything to do with experimental
- 3 particle physics as a science?
- 4 A. No.
- 5 Q. Thank you.
- **6** Second point, you stated with respect to the
- 7 first criticism that there was never any claim made
- 8 that timing was included in the statistical model in
- 9 Appendix A. That's what you just stated, right?
- 10 A. Well, let me speak for myself. I never saw
- 11 that particular test as having anything to do with
- 12 timing. I think there is confusion on this point.
- MR. LEVY: You may continue.
- **14** THE WITNESS: Okay.
- 15 A. There is confusion on this point and that is
- 16 because there's this large variability in the
- 17 Patriots' balls, you don't see a timing effect. You
- 18 expect to see them rise, but they don't rise. And
- 19 if they didn't have this variability, you would see
- 20 it. Now, that's Part 1.
- 21 Part 2 is there's another effect which is you
- 22 can't really get from the halftime measurements by
- 23 themselves. And that is the time at which the
- 24 Patriots' balls are measured and the times at which
- 25 the Colts' balls were measured.

#### Case 1:15-cv-05916-RMB-JCF Document 28-230 Filed 08/04/15 Page 117 of 172 CROSS/MARLOW/KESSLER Page 450 1 And that is discussed in the report, but that 1 **Q.** Who made the decision to leave out the 2 comes from reconstructing what went on during that 2 post-game data? Did you participate in that 3 period in halftime when they were measuring. So no 3 decision? 4 statistical model is going to tell you what that is. 4 A. Yes. I expressed my opinion and I was 5 Q. I will try again. Is it correct, as you 5 overruled. 6 6 **Q.** So others decided not to include it, but you stated, that there was never any claim made that 7 there was any timing variable in the statistical 7 wanted to include it? 8 model that is set forth in Appendix A? 8 A. That's correct. 9 9 **Q.** In any event, it's not there, correct? MR. REISNER: Objection. 10 A. Well, I will try again. I will try again. 10 A. It's not there. 11 11 There is some inclusion of a statistical -- a time **Q.** Looking just at the halftime data which you 12 effect in the statistical model, but it's only there 12 did include, there is no statistically significant 13 to look for a rise in the balls during the Patriots' 13 effect, correct? 14 measurements. It's not there to look for the 14 A. That's correct. difference between the Patriots' and the Colts' 15 15 **Q.** Now, you then said even though it's not balls. 16 16 statistically significant, you used the word, it's 17 Do you understand this now? 17 "suggestive." Do you remember using that word? 18 Q. Yes, I do. 18 A. Yes. 19 A. Good. 19 Q. Okay. Is "suggestive" a scientific term 20 **Q.** There is no timing effect to account -- to 20 recognized by any statistician? Is that a 21 try to account for whether that was a factor in the 21 scientific term, "suggestive"? 22 differences between the Patriots and the Colts' 22 A. Well, it's a term in plain English. And I 23 balls, correct? 23 can tell you how we use it in science. If you see 24 A. That's correct. 24 something where an effect is suggested, you pursue 25 25 Q. Okay, good. it, all right. So you say, look, we have this data CROSS/MARLOW/KESSLER Page 453 CROSS/MARLOW/KESSLER Page 451 1 Now, the next one, you said that -- you 1 set. There is some suggestion here that something 2 concede that there was no statistically significant 2 is going on. And we do this all the time at CERN. 3 effect for the variability analysis, correct, at the 3 And you can bet your bottom dollar -- you can 4 five-percent level? 4 bet your bottom dollar that if you see a suggestion 5 A. If you only look at the halftime data, yes. of an effect in data, you are going to look very 5 6 Q. Okay. You didn't look at the post-game data, hard for other data to see whether or not you are 6 7 riaht? 7 right. Sometimes the other data shows that you are 8 A. I did. wrong; other times it doesn't. But the notion that 8 Q. You did look at the post-game data? 9 because this is insignificant, well, forget about 10 A. I did. 10 it, is just silly. 11 **Q.** Did you do a study of that? 11 **Q.** It's just silly? 12 A. Yes. 12 A. Yes. If you say because this is not 13 **Q.** Did you report it in your report anywhere? 13 significant, we will never look anyplace else, 14 A. No, because we didn't want to use the 14 that's just silly. 15 halftime data or the post-game data to speak to the 15 **Q.** Didn't you just testify on direct examination 16 mean. However, since you asked, I did do the 16 that you set up the exercise on the difference 17 17 between the differences and that if it was not analysis. It's not in the report. The reason it's 18 not in the report is because of potential 18 statistically significant, your decision would be 19 uncertainties with it. 19 there would be no point to doing anything further? 20 However, any uncertainty I can think of, and 20 Did you testify to that, yes or no? I will ask you to think of an uncertainty, or you 21 A. Yes. 22 (indicating), so think of an uncertainty that would 22 **Q.** Was that silly? 23 23 lead to a smaller variance in the data, and there A. No, and there is a reason, if you will let me 24 are none. So if you include that, then suddenly 24 explain. this variability becomes statistically significant. 25 MR. KESSLER: I have no further questions.

	Case 1:15-cv-05916-RMB-JCF Document 2	<del>B-2</del>	30 Filed 08/04/15P.age.118.of.172
	REDIRECT/MARLOW/REISNER Page 454		REDIRECT/MAREOW/REISNERPage 456
1	COMMISSIONER GOODELL: Let him finish,	1	point.
2	please.	2	MR. LEVY: All right.
3	Q. Explain, explain.	3	MR. KESSLER: Thank you.
4	COMMISSIONER GOODELL: There is no reason to	4	MR. LEVY: Thank you. We are done for the
5	be disrespectful to any witness.	5	day. I understand that the parties are going to
6	Q. I'm sorry. I apologize for that.	6	consult and agree on a proposed due date for
7	A. I can explain. If you hadn't seen a mean	7	post-hearing briefs. The Commissioner will agree to
8	shift, then there would be no point in going on, all	8	any schedule that's reasonable.
9	right. However, we did see a mean shift, so we said	9	In your briefs, the Commissioner would like
10	look, we have to understand why this happens. Then	10	you to address the question of whether he should
11	we look at this variability. The variability data	11	hear from Mr. McNally and/or Mr. Jastremski before
12	in the rest of the experiments' measurements that	12	resolving the issue, before deciding the matter.
13	Exponent made comes for free. So if you get free	13	MR. KESSLER: Other than that question, you
14	data, of course, you look at it.	14	have indicated that we should address the legal
15	COMMISSIONER GOODELL: Okay. Were you done,	15	issues. Can we limit our briefs to that rather
16	Mr. Kessler?	16	than, you know, arguing what happened in the factual
17	MR. KESSLER: I don't have any other	17	record today and all that, or would it be helpful
18	questions for this witness.	18	for you to have that as well? Post-hearing briefs
19	MR. REISNER: Very, very briefly.	19	are I want to find out what would be useful to
20	REDIRECT EXAMINATION BY	20	the Commissioner for his decision.
21	MR. REISNER:	21	MR. LEVY: Recognizing there are 25 people
22	<b>Q.</b> Dr. Marlow, the variability analysis that	22	who are here that would like to leave, why don't I
23	took into account the post-game data that you wanted	23	ask the two of you to consult, see if you can come
24	to include in the report but didn't get included in	24	up with an agreement on that. And I am happy to
25	the report, your view that wasn't included in the	25	participate.
	REDIRECT/MARLOW/REISNER Page 455		REDIRECT/MARLOW/REISNERPage 457
1	report would have been more prejudicial to the	1	MR. NASH: That makes sense.
2	Patriots, correct?	2	MR. KESSLER: Okay.
3	A. Yes, yes, and that was part of how I	3	MR. LEVY: Thank you all for your patience. COMMISSIONER GOODELL: Thank you.
4	interpreted why I was overruled is we didn't want to	5	(Hearing adjourned at 8:27 p.m.)
5	be too aggressive in it. We were trying to be fair.	6	(Hearing dajoarned at orz. pinn)
6	<b>Q.</b> In your view, based on the variability and	7	I, JOSHUA B. EDWARDS, a Notary Public for and
7	analysis, taking into account the post-game data	8	within the State of New York, do hereby certify that
8	would have made it more likely that the Patriots'	9	the above is a correct transcription of my
9	balls did not start at the same psi level when they	10	stenographic notes.
10	were introduced on the field and after Walt Anderson		11.450
11	had gauged them, correct?	11 12	John B. Edwar D.
12	A. Yes. The very the most natural	12	JOSHUA B. EDWARDS, RDR, CRR
13	explanation for the variability is that they started	13	Registered Diplomate Reporter
14	at different pressures, yes.		Certified Realtime Reporter
15	<b>Q.</b> And is it fair to say that this was not	14	
16	included in the report because there was a consensus	15	
17	between you and Exponent that it was better to take	16	
18	a conservative approach and not use the post-game	17	
19	data because it might open you up to some criticism,	18 19	
20	much of which we have heard today?	20	
21	A. Yes, that's fair. That's why I went along,	21	
22	but I couldn't contain myself here; I'm sorry.	22	
23	MR. REISNER: Nothing further.	23	
24	MR. KESSLER: I'm going to resist any	24	
25	temptation to ask any further questions at this	25	

Case 1:15-cv-0	916-RMB-JCF D	cument 28-230 Fi	ed 08/04/15 Page	<b>119 of 172</b> Page 1
\$	<b>102</b> [1] - 125:24	118:14, 119:1,	<b>1333</b> [1] - 2:21	<b>1:00</b> [1] - 149:2
Ψ	<b>104</b> [2] - 78:5, 126:15	119:14, 120:20,	<b>136</b> [2] - 237:17,	<b>1:07</b> [1] - 149:3
<b>\$5,512</b> [1] - 26:19	<b>105</b> [3] - 94:13, 127:2,	121:15, 122:9,	252:12	<b>1:08</b> [1] - 132:6
<b>\$50,000</b> [1] - 45:1	144:19	122:22, 122:23,	<b>139</b> [1] - 5:15	_
	<b>1050</b> [1] - 3:21	161:25, 163:7,	<b>14</b> [5] - 238:25,	2
0	<b>106</b> [1] - 129:10	184:6, 187:9,	258:15, 298:3,	<b>2</b> [28] - 43:5, 111:9,
<b>0.3</b> [1] - 355:18	<b>107</b> [2] - 129:21,	216:17, 216:20, 216:22, 217:14,	298:10, 416:7 <b>143</b> [1] - 5:15	<b>2</b> [28] - 45.5, 111.9, 111:19, 160:13,
<b>0.4</b> [1] - 355:18	130:19 <b>108</b> [1] - 131:8	218:2, 218:11,	<b>15</b> [16] - 26:2, 28:3,	176:10, 176:11,
<b>00067</b> [1] - 104:12	<b>109</b> [2] - 132:17,	218:20, 238:11,	36:2, 47:22, 116:13,	177:23, 180:11,
<b>001584</b> [1] - 333:8	133:22	240:9, 240:14,	132:19, 214:3,	199:21, 222:13,
<b>00206</b> [1] - 104:13	<b>10:18</b> [1] - 236:7	293:5, 293:7,	214:4, 214:7,	273:8, 273:9,
<b>004</b> [1] - 417:16	<b>10:26</b> [1] - 130:25	293:11, 293:16,	214:11, 214:21,	299:24, 316:5,
<b>04</b> [1] - 420:24	<b>10:54</b> [1] - 144:22	293:19, 293:25,	214:24, 225:3,	327:1, 327:16,
<b>045</b> [1] - 433:21	<b>11</b> [5] - 99:6, 129:22,	294:6, 374:23,	233:24, 410:16,	361:11, 363:15,
<b>05</b> [12] - 165:8, 165:19,	129:24, 130:5,	375:17, 378:13,	416:8	365:18, 367:19,
166:20, 166:24,	208:21	397:17, 397:20,	<b>150</b> [1] - 5:16	415:12, 420:11,
175:23, 420:21,	11-minutes-and-one-	398:21, 398:25, 400:10, 400:12	<b>1584</b> [2] - 333:13,	420:13, 446:4, 449:21
420:22, 424:23,	second [1] - 130:10	<b>12.6</b> [9] - 115:25,	333:14	<b>2.5</b> [2] - 279:13,
425:23, 446:17	<b>11.11</b> [1] - 160:24	116:15, 118:15,	<b>1597</b> [1] - 249:15 <b>16</b> [23] - 13:1, 13:3,	<b>2.3</b> [2] - 27 9.13, 399:17
<b>055</b> [1] - 433:21 <b>06</b> [1] - 420:25	<b>11.32</b> [1] - 184:14	217:14, 218:20,	<b>16</b> [23] - 13:1, 13:3, 52:12, 58:13, 58:14,	<b>2.6</b> [1] - 399:17
<b>06</b> [1] - 420:25 <b>067</b> [1] - 222:5	<b>11.49</b> [1] - 160:24	293:5, 293:7,	58:23, 60:4, 62:24,	<b>20</b> [5] - 131:9, 131:11,
<b>07</b> [1] - 222.3	<b>11.8</b> [1] - 258:24	293:11, 364:14	92:22, 93:18, 93:20,	154:1, 353:10,
<b>01</b> [1] - 173.10	<b>11.87</b> [1] - 172:24 <b>1133</b> [1] - 3:3	<b>12.7</b> [5] - 114:19,	93:22, 94:1, 116:11,	400:15
1	<b>1135</b> [1] - 3.3 <b>115</b> [4] - 97:15, 97:16,	116:15, 117:9,	118:19, 142:18,	<b>200</b> [1] - 3:10
•	98:8	120:20, 364:14	277:21, 278:13,	<b>2000</b> [2] - 47:17,
<b>1</b> [34] - 102:5, 104:7,	<b>11:23</b> [1] - 100:1	<b>12.8</b> [3] - 114:19,	397:4, 397:7, 397:9,	113:20
159:22, 174:4,	<b>11:38</b> [1] - 100:1	116:15, 117:9	397:25, 398:25	<b>2001</b> [1] - 440:13
174:6, 174:12,	<b>11:45:16</b> [1] - 134:6	<b>12.9</b> [2] - 116:15,	<b>1639</b> [1] - 139:6	<b>20036</b> [3] - 2:21, 3:4,
176:13, 180:11,	<b>12</b> [20] - 50:4, 59:11,	120:20 <b>12.95</b> [2] - 161:23,	<b>168</b> [1] - 226:2	3:22
197:18, 197:22,	59:25, 75:13, 77:15,	293:13	<b>16th</b> [1] - 62:11	<b>2006</b> [10] - 12:2, 50:10, 64:4, 64:6, 65:3,
198:9, 198:25, 214:2, 214:4, 214:7,	118:21, 118:23,	<b>1285</b> [1] - 3:16	<b>17</b> [1] - 401:12	65:9, 66:12, 97:19,
214:2, 214:4, 214:7, 214:11, 214:22,	125:6, 129:3,	<b>12:36</b> [1] - 149:3	<b>174</b> [3] - 253:13, 255:12	113:25, 412:17
221:24, 262:25,	172:16, 173:1,	<b>12th</b> [4] - 191:7, 192:4,	<b>177</b> [2] - 248:2, 254:5	<b>2008</b> [1] - 440:13
263:9, 272:2, 299:9,	173:2, 239:21,	192:10, 319:22	<b>17th</b> [1] - 62:13	<b>2009</b> [2] - 24:8, 119:22
327:1, 327:12,	364:15, 375:10, 375:11, 378:8,	<b>13</b> [37] - 12:25, 59:11,	<b>18</b> [4] - 103:12,	<b>2010</b> [1] - 119:22
333:23, 361:6,	397:23, 399:12,	59:25, 62:24, 73:6,	236:20, 337:5,	<b>2013</b> [1] - 54:24
365:17, 414:16,	399:24	73:19, 94:11,	401:12	<b>2014</b> [17] - 12:13, 52:5,
415:11, 417:18,	<b>12.17</b> [14] - 187:9,	116:16, 116:21,	18th [2] - 105:12,	52:13, 54:24, 99:6,
417:24, 420:5,	187:10, 216:1,	118:21, 119:10,	306:24	102:20, 102:21,
449:20	216:9, 216:24,	120:20, 126:5,	<b>19</b> [5] - 125:11,	103:2, 103:8,
<b>1,500</b> [1] - 338:1	217:4, 217:24,	126:12, 130:22, 134:4, 172:23,	125:15, 129:16,	103:10, 104:16,
<b>1.1</b> <sub>[1]</sub> - 173:2 <b>1/19/2015</b> <sub>[1]</sub> - 94:16	218:19, 364:10,	193:17, 193:18,	353:14, 401:12	112:21, 113:20, 124:3, 245:23,
<b>10</b> [4] - 131:2, 172:2,	364:11, 364:18,	239:22, 277:20,	<b>191</b> [3] - 197:19, 359:15, 359:16	333:23
242:6, 357:17	375:20, 376:1	277:24, 278:3,	<b>1911</b> [1] - 440:3	<b>2014/2015</b> [1] - 135:8
<b>10.1</b> [4] - 238:22,	<b>12.2</b> [1] - 364:9 <b>12.5</b> [63] - 63:20, 64:1,	278:12, 278:17,	<b>1911</b> [1] - 440.3 <b>1920</b> [2] - 18:8, 58:18	<b>2015</b> [30] - 1:10, 6:2,
239:11, 239:15,	65:8, 66:11, 68:3,	293:13, 293:14,	<b>194</b> [1] - 5:16	102:14, 103:2,
241:22	113:14, 113:22,	293:16, 293:19,	<b>196</b> [1] - 156:18	103:8, 103:11,
<b>10/17</b> [1] - 92:9	114:8, 114:11,	294:1, 294:7, 319:5,	<b>1985</b> [1] - 153:7	103:12, 104:1,
<b>100</b> [4] - 5:15, 77:12,	114:14, 114:22,	319:10, 319:12,	<b>1988</b> [1] - 412:17	104:16, 107:2,
77:15, 153:1	114:25, 115:10,	319:15, 364:16	<b>19th</b> [13] - 78:9, 125:1,	107:5, 107:7,
10018 [1] - 2:12	115:12, 115:19,	<b>13.0</b> [4] - 163:7, 171:3, 171:20, 375:11	125:4, 126:1,	107:10, 109:13,
<b>10019</b> [1] - 3:16	115:21, 115:25,	<b>13.1</b> [1] - 293:13	126:18, 127:3,	111:2, 111:11,
<b>101</b> [1] - 124:23	116:3, 116:15,	<b>13.5</b> [6] - 65:8, 113:15,	130:4, 133:11,	111:25, 112:22, 121:2, 125:11,
<b>10154</b> [3] - 1:16, 2:4,	116:20, 117:23,	113:23, 122:23,	141:9, 143:15,	121.2, 125.11, 125:15, 129:16,
2:16 <b>10166</b> [1] - 3:10	118:5, 118:7,	218:2, 319:2	144:22, 145:13,	131:9, 131:11,
10 100 [1] - 3. 10	118:12, 118:13,		237:19	,,
of 172 sheets		Page 1 to 1 of 54		06/25/2015 03:43:11

Case 1:15-cv-0	<del>5916-RMB-JCF D</del> O	rcument 28-230 Fi	ed 08/04/15 Page	<b>120 of 172</b> Page 2
140:20, 263:11,	3	<b>41</b> [1] - 353:7	355:22, 356:15	112:1, 140:20
263:23, 332:15,	•	<b>411</b> [1] - 5:23	<b>6.7</b> [2] - 222:8, 369:18	
337:5	<b>3</b> [37] - 111:7, 111:17,	<b>42</b> [3] - 5:8, 226:15,	<b>600,000</b> [1] - 342:11	9
<b>203</b> [1] - 64:19	126:16, 139:10,	236:22	<b>61</b> [1] - 331:19	
<b>20th</b> [7] - 3:3, 132:1,	161:11, 161:12,	<b>427</b> [1] - 5:23	<b>62</b> [6] - 222:19,	<b>9</b> [1] - 356:24
132:7, 132:10,	161:17, 162:6,	<b>43</b> [1] - 205:19	224:13, 224:18,	<b>9,900</b> [1] - 104:16
133:11, 141:9,	162:8, 177:23,	<b>438</b> [1] - 5:23	224:19, 225:1	<b>90</b> [1] - 179:13
143:15	180:11, 183:10,	<b>439</b> [1] - 5:24	<b>620</b> [1] - 2:11	<b>90017</b> [1] - 4:4
<b>21</b> [1] - 131:25	184:21, 190:24,	<b>448</b> [1] - 5:24	<b>64</b> [2] - 354:12, 355:10	<b>92.3</b> [1] - 222:9
<b>21st</b> [5] - 133:23,	215:19, 216:21,	<b>45</b> [5] - 226:9, 377:15,	<b>650</b> [1] - 351:6	<b>95</b> [1] - 97:18
141:10, 143:15,	219:16, 224:10,	378:8, 410:8, 410:19	<b>66</b> [1] - 29:22	<b>96</b> [3] - 105:10, 111:5,
261:23, 313:2	279:13, 294:9,	<b>454</b> [1] - 5:24	<b>67</b> [4] - 184:6, 365:4,	337:4
<b>22</b> [5] - 169:23,	294:11, 296:20,	<b>46</b> [1] - 28:4	365:8, 365:18	<b>99</b> [1] - 104:15
172:18, 174:15,	296:21, 302:24,	<b>47</b> [2] - 5:15, 134:4	<b>69</b> [1] - 333:11	<b>9:28</b> [2] - 1:11, 6:3
204:18, 223:10	316:2, 316:9,	<b>48</b> [8] - 184:7, 220:17,	<b>6:04</b> [1] - 345:1	<b>9:51</b> [2] - 78:8, 126:24
<b>227</b> [1] - 5:17	355:11, 363:20,	291:1, 352:23,	<b>6:50</b> [1] - 67:8	
<b>23</b> [5] - 1:10, 6:2,	366:10, 374:12,	365:25, 372:2, 372:3	<b>6th</b> [8] - 40:4, 108:24,	Α
102:20, 263:11	377:14, 378:8,	<b>48-hour</b> [1] - 70:23	109:25, 110:10,	a m rot 4:44 0:0
<b>23rd</b> [2] - 264:12,	422:5, 446:25	<b>49</b> [5] - 212:14,	138:12, 279:10,	<b>a.m</b> [6] - 1:11, 6:3,
264:22	<b>30</b> [12] - 50:3, 148:19, 153:8, 153:10,	360:11, 430:23,	336:8, 336:16	100:1, 134:5, 134:6
<b>24</b> [6] - 24:7, 50:5,	390:14, 400:15,	431:17, 431:18	_	<b>A2</b> [1] - 98:22 <b>A3</b> [8] - 173:11, 198:3,
69:11, 69:21, 70:23,	410:8, 410:19,	<b>4:03</b> [1] - 260:24	7	198:15, 201:15,
131:1	410.8, 410.19, 411:11,	<b>4:42</b> [1] - 236:7	7 (45) 5:4 60:0 70:0	202:19, 203:1,
<b>25</b> [2] - 125:5, 456:21	418:10, 434:9	_	<b>7</b> [15] - 5:4, 62:3, 78:6,	212:13, 430:4
<b>251</b> [1] - 5:17	30-some-odd [1] -	5	111:1, 111:11, 111:25, 112:4,	<b>Aaron</b> [2] - 248:3,
<b>255</b> [1] - 5:17 <b>256</b> [3] - 239:3,	399:14	Fro. 100:00 100:0	140:19, 163:11,	254:4
258:16, 300:4	300-pound [1] -	<b>5</b> <sub>[8]</sub> - 102:20, 103:2, 103:8, 103:11,	163:12, 175:18,	ability [3] - 64:21,
<b>258</b> . 10, 300.4 <b>259</b> [1] - 5:17	282:12	103.8, 103.11,	175:21, 177:19,	193:6, 316:11
<b>260</b> [6] - 298:12,	<b>3085</b> [1] - 4:4	161:11, 408:6	179:13, 316:5	<b>able</b> [23] - 10:14,
298:13, 298:23,	<b>30th</b> [1] - 248:4	<b>50</b> [7] - 71:7, 128:8,	<b>70</b> [2] - 333:6, 335:10	13:21, 16:12, 20:5,
298:24, 299:23,	<b>31</b> [3] - 417:24,	220:17, 291:1,	<b>71</b> [5] - 184:6, 364:25,	20:6, 20:15, 25:25,
300:4	417:25, 440:6	307:13, 309:8,	365:4, 365:6, 365:18	53:14, 55:19, 98:9,
<b>261</b> [1] - 5:18	<b>321</b> [1] - 5:18	426:15	<b>72</b> [1] - 365:4	112:12, 113:3,
<b>266</b> [1] - 240:2	<b>34</b> [3] - 130:22,	<b>538</b> [1] - 330:7	<b>725</b> [1] - 4:4	148:3, 173:22,
<b>28</b> [10] - 5:5, 109:13,	132:20, 397:12	<b>54</b> [1] - 388:8	<b>73</b> [3] - 24:4, 249:15,	187:6, 339:6,
313:8, 332:15,	<b>340</b> [1] - 5:18	<b>55</b> [5] - 131:12,	318:11	417:14, 418:22,
382:23, 387:7,	<b>3429</b> [1] - 367:16	382:23, 392:7,	<b>77</b> [2] - 91:25, 92:1	423:4, 423:10,
403:17, 403:22,	<b>3437</b> [2] - 222:1, 222:2	402:23, 403:25	<b>79</b> [1] - 92:1	424:18, 432:7, 432:8
405:17, 445:4	<b>345</b> [4] - 1:15, 2:3,	<b>56</b> [2] - 299:25, 300:1	<b>7:00</b> [3] - 67:8, 313:3	<b>absence</b> [2] - 223:13,
28th [4] - 84:20,	2:15, 5:22	<b>58</b> [1] - 129:24	<b>7:04</b> [1] - 395:25	404:2
333:12, 333:19,	<b>35</b> [1] - 156:7	<b>5:00</b> [1] - 313:4	<b>7:12</b> [1] - 395:25	absolute [1] - 316:16
337:14	<b>36</b> [2] - 68:24, 70:18	<b>5:13</b> [2] - 132:7,	<b>7:24</b> [1] - 131:19	absolutely [32] -
<b>2:00</b> [1] - 171:5	<b>373</b> [1] - 5:22	132:10	<b>7:25</b> [1] - 126:1	38:21, 50:8, 75:20,
<b>2:10</b> [1] - 171:5	<b>3:54</b> [1] - 260:24	<b>5:21</b> [2] - 129:14,	<b>7:27</b> [1] - 133:23	75:22, 75:25, 77:22,
<b>2:17</b> [1] - 194:19	<b>3rd</b> [1] - 335:19	129:17	<b>7:30</b> [2] - 67:6, 130:25	80:9, 81:17, 84:2,
<b>2:28</b> [1] - 194:19		<b>5:30</b> [2] - 130:4, 313:4	<b>7:38</b> [1] - 134:5	85:12, 85:19, 96:14,
<b>2:37</b> [1] - 170:15	4	<b>5:54</b> [1] - 345:1		97:1, 97:11, 141:6,
<b>2:38</b> [5] - 170:2, 170:5,	4 400 44 400 4	5th [1] - 112:22	8	141:15, 141:19,
170:10, 171:4,	<b>4</b> [16] - 102:11, 107:1,			142:3, 142:6, 142:10, 173:9,
171:12	129:11, 175:21,	6	<b>8</b> [4] - 102:14, 166:7,	292:6, 296:8,
<b>2:40</b> [4] - 170:8,	184:22, 192:5,	4-1	208:21, 300:21	301:12, 315:13,
171:12, 171:16,	226:3, 294:9, 204:11, 206:20	<b>6</b> [18] - 101:22, 102:14,	<b>86</b> [5] - 62:4, 94:8,	329:19, 341:7,
172:25	294:11, 296:20, 296:22, 302:24,	103:2, 103:8,	277:10, 277:15,	360:8, 368:3,
<b>2:50</b> [1] - 171:5	316:2, 316:9, 372:15	103:10, 104:15,	277:16	391:22, 443:16
<b>2nd</b> [2] - 333:17,	<b>40</b> [4] - 50:4, 152:19,	106:23, 107:2,	<b>8:00</b> [1] - 67:6	<b>absorb</b> [1] - 55:17
335:18	304:17, 399:14	107:5, 107:7, 107:10, 112:21	<b>8:21</b> [3] - 111:12,	abstract [1] - 220:22
	<b>402</b> [1] - 5:22	107:10, 112:21, 162:24, 226:3,	111:25, 140:20	abundance [1] - 157:7
	<b>408</b> [1] - 5:22	263:23, 350:16,	<b>8:27</b> [1] - 457:5 <b>8:33</b> [3] - 111:12,	academic [8] - 16:2,
	100[1] 0.22	200.20, 000.10,	<b>∪.ఎఎ</b> [১] - 111.1∠,	<i>,</i>
25/2015 03:43:11 PM		Page 2 to 2 of 54		120 of 172 sh

Case 1:15-cv-0	5916-RMB-JCF D	cument 28-230 Fi	ed 08/04/15 Page	<b>121 of 172</b> Page 3
151:11, 281:8,	243:1, 243:4, 245:19	177:1, 177:2,	123:1, 124:8,	393:20, 393:25,
281:23, 282:24,	active [6] - 102:13,	177:15, 178:18,	124:25, 125:2,	394:10, 427:21,
283:12, 412:12,	102:19, 104:20,	180:6, 185:13,	141:20, 143:18,	428:8, 433:4,
440:18	106:25, 108:17,	185:23, 186:9,	155:8, 189:2, 217:3,	441:19, 448:22,
accept [4] - 35:17,	287:20	416:20, 416:22,	229:13, 229:16,	456:6, 456:7
38:7, 178:4, 308:16	activities [12] - 10:16,	418:8, 418:15,	251:11, 261:17,	agreed [6] - 30:21,
accepted [3] - 304:22,	38:8, 38:9, 228:24,	418:16, 418:17,	263:16, 288:2,	58:10, 230:19,
307:2, 371:12	248:20, 249:11,	420:5, 420:12,	293:8, 304:10,	343:20, 344:4, 433:7
access [6] - 87:2,	273:15, 273:23,	438:15	306:7, 327:18,	agreement [13] -
107:15, 244:6,	274:3, 274:8,	adjustments [4] -	334:8, 359:1	28:19, 31:2, 31:8,
244:18, 321:16,	310:16, 325:24	157:2, 186:14,	<b>Affairs</b> [1] - 2:7	31:13, 32:4, 36:8,
336:18	activity [2] - 170:19,	216:12, 417:17	affect [15] - 17:14,	344:16, 344:20,
accomplished [1] -	256:12	administer [1] - 6:23	237:14, 269:15,	344:22, 373:21,
134:18	actual [13] - 105:20,	administrative [1] -	288:1, 290:12,	374:10, 433:9,
according [11] - 40:1,	106:13, 106:16,	345:17	361:6, 363:15,	456:24
107:1, 170:25,	110:6, 116:17,	admit [1] - 20:3	366:11, 371:15,	agrees [1] - 447:16
· · · · · · · · · · · · · · · · · · ·	185:4, 191:2,	admitted [3] - 150:2,	373:3, 416:12,	ahead [7] - 159:8,
177:18, 184:23,	215:24, 247:11,		422:4, 436:18,	226:19, 227:19,
191:9, 216:16,	296:7, 353:4,	154:18, 434:15	447:23, 448:7	298:11, 307:11,
217:1, 236:5, 257:9, 340:24	353:12, 421:23	ADOLPHO [1] - 2:6	affecting [3] - 357:13,	376:13, 404:1
account [28] - 173:6,	<b>add</b> [6] - 7:3, 7:4,	adopt [3] - 65:14,	429:24, 431:10	air [24] - 13:11, 59:2,
	122:24, 390:8,	176:3, 324:23	<b>affects</b> [3] - 13:13,	59:4, 73:5, 94:6,
173:22, 176:9, 202:1, 203:9,	417:25, 421:17	adopted [3] - 164:25,	19:5, 178:19	116:8, 116:9,
211:14, 212:16,	added [4] - 59:2,	175:25, 181:21	<b>affirm</b> [2] - 40:24, 41:2	121:25, 122:24,
213:2, 214:19,	284:25, 381:11	adopting [1] - 285:23	<b>afraid</b> [2] - 43:14,	204:22, 248:7,
215:13, 221:11,	adding [1] - 262:4	advance [2] - 271:20,	408:2	248:9, 248:18,
253:1, 327:18,	addition [9] - 33:19,	331:25	afternoon [2] - 146:4,	254:9, 273:16,
357:11, 357:15,	149:23, 180:5,	advanced [1] - 416:21	194:22	318:24, 318:25,
358:9, 358:14,	184:19, 193:3,	advantage [1] - 24:16	afterwards [1] - 43:1	327:20, 328:15,
358:17, 362:20,	197:5, 304:3,	adverse [1] - 44:12		351:22, 393:10,
366:20, 373:25,	306:13, 329:5	advice [6] - 15:7,	<b>age</b> [2] - 376:25, 379:10	393:22, 404:22,
384:12, 424:4,	additional [15] - 50:6,	46:21, 46:22, 85:6,	agent [5] - 15:13,	405:6
429:13, 450:20,	99:17, 140:15,	268:4, 305:8	105:11, 332:5,	<b>AKIN</b> [1] - 2:19
450:21, 454:23,	167:8, 167:20,	advise [2] - 27:18,	333:10, 334:13	<b>Al</b> [2] - 251:20, 319:25
455:7	184:18, 208:23,	247:18	Agents [1] - 4:3	alike [1] - 218:23
accounted [3] - 19:24,	226:24, 227:10,	advised [2] - 227:2,	agents [13] - 14:20,	allegation [4] - 75:1,
414:2, 414:4	227:16, 238:8,	304:19	15:8, 84:22, 86:18,	75:2, 229:12, 230:8
accounting [2] -	279:14, 279:16,	advising [1] - 283:3	305:12, 305:15,	allegations [9] -
408:23, 414:5	342:13, 351:23	advisors [1] - 334:12	312:8, 313:20,	74:10, 79:2, 81:12,
accurate [5] - 125:8,	address [10] - 28:12,	advocate [3] - 23:20,	313:21, 314:7,	81:19, 81:24,
185:1, 217:21,	31:22, 35:24, 36:7,	271:20, 323:6	332:9, 332:10,	130:13, 142:5,
264:7, 427:4	36:17, 41:20,	<b>AEI</b> [25] - 188:20,	335:15	229:24, 322:17
accurately [8] -	209:11, 438:19,	330:2, 330:18,	aggressive [1] - 455:5	alleged [1] - 91:14
105:24, 106:11,	456:10, 456:14	365:20, 368:11,	agitated [1] - 93:1	allegedly [2] - 94:15,
253:20, 255:12,	addressed [7] - 6:18,	368:12, 368:14,	<b>ago</b> [5] - 24:2, 55:13,	249:10
255:20, 259:19,	30:6, 34:8, 39:2,	368:15, 368:23,	87:8, 117:12, 417:11	allotment [1] - 226:10
409:4, 419:3	247:5, 300:4, 430:14	369:13, 369:20,	agree [38] - 17:3,	allow [3] - 109:19,
accusing [3] - 94:20,	addressing [2] -	369:25, 370:11,	23:19, 34:19, 64:17,	248:9, 279:4
95:6, 144:24	265:25, 432:20	370:19, 370:24, 371:15, 422:11,	97:25, 200:3,	allowed [1] - 242:14
achieve [1] - 432:11	adds [1] - 153:9		202:16, 202:19,	allowing [1] - 378:4
acknowledged [3] -	adequate [1] - 41:1	422:21, 422:23,	205:15, 214:20,	alls [1] - 138:23
27:5, 176:17, 419:11	adjourned [1] - 457:5	423:3, 424:15, 426:3, 426:5,	220:14, 246:1,	almost [9] - 77:10,
acknowledgements	adjust [3] - 174:1,	420.3, 420.3, 427:10, 448:3	248:17, 257:13,	77:12, 77:16, 92:22,
[1] - 22:18	185:9, 417:6	<b>AFC</b> [39] - 33:2, 37:18,	271:15, 299:3,	103:23, 302:1,
act [2] - 266:22,	adjusted [2] - 168:20,	41:7, 66:21, 67:13,	312:2, 314:10,	304:17, 316:10,
324:19	175:3	68:15, 68:17, 68:19,	314:17, 315:9,	433:16
action [4] - 245:19,	adjustment [23] -	69:20, 76:16, 78:9,	337:15, 344:24,	alone [2] - 23:24, 32:3
245:21, 246:15,	161:16, 174:7,	85:22, 94:17, 96:11,	373:21, 374:11,	<b>alter</b> [3] - 51:7, 96:12,
250:8	175:1, 175:7,	103:11, 103:15,	374:17, 384:18,	421:12
actions [4] - 154:21,	175:1, 175:7, 175:11, 176:9,	103:11, 103:15,	384:23, 393:5,	altered [2] - 250:17,
3313113 [1] 101.21,	170.11, 170.0,	100.20, 121.1,	3020, 000.0,	aitereu [2] - 200.17,
of 172 sheets		Page 3 to 3 of 54		06/25/2015 03:43:11

ument 28-230 08/04/15 <del>2 of 172</del>Page 4 438:17 182:5, 183:12, 432:23, 433:3, 386:5, 397:7, 220:22, 324:22, alternative [7] - 157:4, 183:21, 183:25, 434:20, 434:21, 423:17, 428:13, 325:2, 432:19 158:3, 158:14, 190:21, 191:18, 436:14, 438:8, 434:18, 436:10, apply [11] - 21:22, 159:11, 177:20, 195:12, 195:14, 438:11, 441:15, 448:16 24:1, 24:20, 26:1, 180:6, 413:23 195:21, 196:3, 443:22, 445:18, answered [1] - 341:2 26:9, 46:14, 151:13, 446:1, 447:15, 196:19, 197:3, alternatives [1] answering [1] - 436:4 187:11, 221:16, 197:6, 197:23, 451:3, 451:17, 158:4 answers [2] - 265:10, 233:17, 275:3 454:22, 455:7 198:2, 198:4, amazed [1] - 444:6 322:3 applying [2] - 216:2, 198:13, 198:20, American [4] - 195:1, analytic [1] - 349:1 antitrust [3] - 151:21, 219:24 199:3, 199:4, 199:6, 195:5, 195:8, 412:21 analytical [1] - 327:6 152:6, 153:7 appointed [3] - 284:1, 200:2, 200:10, analyze [6] - 162:19, Americas [1] - 3:16 Antitrust [1] - 152:4 348:12, 348:17 203:5, 203:11, **AMOONA** [3] - 3:12, 327:12, 349:7, appreciable [1] anxious [1] - 8:11 203:18, 203:20, 349:9. 418:25. 429:2 97:15, 98:22 435:12 anyplace [1] - 453:13 204:10, 204:11, amount [12] - 13:2. analyzed [4] - 349:20, anyway [6] - 96:21, appreciate [3] - 148:7, 204:13, 205:16, 40:9, 52:22, 168:9, 354:15, 378:14, 225:19, 314:21 129:9, 321:13, 207:1, 207:14, 413:20 343:4, 364:18, 175:10, 342:13, appreciation [1] -207:15, 207:16, analyzing [1] - 428:18 376:10, 377:8, 314:19 384:12 207:19, 207:23, Anderson [29] - 34:14, 383:16, 435:5, apart [4] - 10:6, approach [11] - 42:4, 208:14, 208:18, 435:20, 435:23 183:18, 186:6, 196:21, 342:9, 163:15, 163:18, 210:22, 211:8, amounts [1] - 279:14 186:24, 188:4, 351:20 163:20, 210:3, 211:13, 211:16, 216:13, 241:6, 348:20, 367:17, ample [1] - 447:8 apologize [5] - 262:2, 211:18, 212:16, 291:23, 292:1, 367:20, 438:15, 298:8, 392:4, amplify [1] - 422:22 213:3, 213:24, 293:17, 293:22, 399:10, 454:6 442:16, 455:18 amplifying [1] -214:17, 215:6, 293:23, 294:1, 413:10 apparent [1] - 347:5 approached [3] -215:11, 215:12, 294:6, 296:21, 287:4, 327:3, 329:3 **AMY** [1] - 3:18 appeal [4] - 6:12, 215:23, 216:7, 297:6, 297:13, analog [2] - 221:14, 32:22, 271:5, 279:3 approaches [1] -218:5, 219:15, 297:21, 301:14, 418:23 221:15 APPEAL [1] - 1:8 220:25, 222:4, 302:21, 303:7, appropriate [11] analyses [21] appear [1] - 355:12 223:21, 286:2, 304:3, 306:5, 340:7, 21:4, 28:9, 29:5, 151:14, 152:1, appearances [2] -286:8, 296:18, 359:2, 369:3, 369:9, 40:21, 42:13, 153:15, 156:21, 7:11, 12:12 316:12, 316:15, 376:9, 455:10 200:25, 264:6, 156:22, 157:17, Appearances [2] -317:10, 320:6, Anderson's [1] -271:3, 374:19, 157:21, 157:22, 2:25, 3:25 348:2, 349:14, 303:12 428:11, 443:24 157:24, 174:22, appendix [10] -349:16, 349:17, **ANDREW** [1] - 3:22 appropriately [1] -204:3, 204:5, 204:6, 173:10, 201:12, 352:17, 354:14, Angeles [1] - 4:4 203:9 206:15, 206:16, 203:4, 203:12, 359:18, 360:2, announced [4] appropriateness [10] -209:13, 346:14, 211:19. 211:23. 360:11, 360:15, 263:11, 264:13, 361:7, 363:16, 363:9, 437:1, 441:8, 212:4, 212:13, 360:18, 361:2, 264:21, 265:2 366:12, 371:16, 441:10 419:4, 429:7 361:22, 362:5, announcing [1] -373:4, 416:13, Analysis [2] - 155:14, Appendix [11] -362:7, 363:3, 261:25 443:21, 444:1, 412:23 202:20, 202:25, 363:10, 366:4, anomalies [2] -447:24, 448:8 analysis [182] - 15:25, 212:1, 212:2, 366:25, 367:15, 413:21, 438:20 approval [2] - 67:12, 152:5, 152:7, 153:3, 428:15, 428:20, 368:2, 368:5, anomalous [1] -147:6 155:14, 156:2, 428:23, 430:7, 368:10, 369:19, 432:20 156:6, 158:22, 430:17, 449:9, 450:8 approve [4] - 50:1, 369:20, 371:1, answer [41] - 10:4, 50:25, 116:21, 147:2 158:23, 159:2, apples [4] - 178:18, 371:5, 371:6, 10:24, 11:3, 11:7, approved [7] - 19:10, 159:15, 160:17, 361:21, 372:25 371:11, 380:10, 89:18, 89:21, 99:19, 160:19, 162:15, 51:8, 51:14, 51:15, applicability [2] -380:24, 382:8, 162:20, 162:21, 162:9, 203:13, 51:20, 56:6, 147:2 221:3, 221:4 382:13, 382:19, 203:16, 208:1, 163:19, 164:2, approximate [1] applicable [4] - 25:24, 383:8, 388:8, 395:5, 209:9, 211:24, 164:3, 165:8, 376:25 219:13, 311:12, 395:8, 395:14, 165:10, 165:11, 217:18, 220:6, April [1] - 102:14 356:19 399:15, 400:12, 223:17, 246:9, 167:25, 172:5, application [9] arbitrarily [1] - 122:24 402:11, 412:25, 246:10, 265:12, 172:20, 173:6, arbitrators [1] - 27:3 152:7, 152:13, 413:6, 413:8, 265:14, 267:24, 173:13, 173:19, area [6] - 245:11, 153:2, 219:16, 413:12. 413:15. 268:14, 268:21, 173:20, 175:6. 279:11, 285:25, 220:3, 221:10, 414:17, 415:2, 270:1, 270:20, 175:16, 176:25, 266:14, 288:1, 288:6 322:8, 322:20, 347:4 417:10, 419:5, 177:7, 177:8, 285:3, 288:4, applied [8] - 22:3, areas [3] - 322:19, 420:14, 421:5, 295:16, 311:1, 179:10, 179:16, 346:16, 440:17 22:23, 35:2, 152:1, 421:7, 429:24, 179:18, 180:24, 311:7, 341:3, 380:3, 158:7, 184:4, 433:6 arena [2] - 346:5 431:11, 431:14, 383:13, 385:25, 180:25, 181:21, applies [5] - 26:15, arguably [1] - 25:24 431:23, 432:10,

ument 28-230 argued [1] - 188:12 151:6 368:8, 376:18, 403:2, 421:13 arguing [1] - 456:16 associated [3] argument [10] - 21:24, 154:24, 252:15, **astounding** [1] - 13:2 22:2, 31:9, 35:18, 254:17 asymptotes [1] associates [1] -183:8 36:25, 37:5, 37:9, 37:10, 41:4, 43:3 284:24 AT&T [1] - 139:16 association [4] attached [1] - 237:18 arguments [8] - 21:7, 21:10, 30:2, 32:5, 195:2, 195:5, 195:8, attacks [1] - 134:20 33:10, 38:11, 39:6, 412:21 attempt [2] - 24:14, 271:23 Association [3] - 36:9, 24:15 arises [1] - 27:22 36:10, 322:13 attempted [1] - 24:10 ASSOCIATION [4] arithmetic [1] - 421:17 attend [3] - 47:14, **Arizona** [2] - 76:19, 3:3, 3:9, 4:8, 5:13 267:7, 335:4 328:12 associations [1] attendant [5] - 122:5, 412:19 arose [1] - 29:17 123:20, 250:10, assume [25] - 10:11, article [19] - 253:14, 276:13, 276:21 10:12, 19:12, 19:13, 255:16, 255:20, attendants [3] -22:6, 44:8, 97:25, 255:22, 256:1, 257:10, 258:10, 256:4, 256:5, 256:6, 148:12, 227:11, 260:7 256:9, 257:3, 257:6, 236:8, 242:16, attention [30] -269:11, 269:22, 257:9, 258:6, 101:21, 102:11, 293:8, 319:11, 259:17, 259:19, 102:17, 104:10, 259:20, 260:3, 364:5, 365:22, 106:22, 111:7, 368:18, 369:11, 260:6, 280:18 112:20, 129:10, 376:7, 383:23, Article [1] - 28:4 133:21, 139:10, 386:3, 386:6, articles [2] - 280:6, 158:5, 162:10, 398:15, 399:6 290:22 192:10, 200:14, assumed [3] - 364:25, articulated [1] - 18:9 215:18, 253:12, 371:8, 381:17 298:2, 337:6, 353:7, as-yet [1] - 222:21 assumes [2] - 215:24, 355:22, 356:14, As-yet [1] - 223:8 218:5 356:24, 361:10, ascribing [1] - 19:22 assuming [15] - 29:4, 363:19, 373:2, aside [3] - 38:11, 44:16, 44:20, 98:6, 402:23, 403:1, 171:18, 182:8 171:6, 171:7, 174:7, 445:16, 446:3, aspect [6] - 14:11, 188:4, 246:25, 446:24 179:25, 196:6, 247:1, 372:1, 381:7, attitude [1] - 57:22 347:11, 348:21, 381:9, 405:18, attorney [4] - 6:21, 358:22 419:18 267:16, 268:12, aspects [4] - 204:1, assumption [19] -271:15 208:16, 209:10, 39:20, 171:2, Attorney [1] - 152:3 347:21 174:19, 183:17, attorney-client [2] assertion [1] - 268:13 183:20, 214:5, 267:16, 268:12 assessment [3] -216:6, 221:21, **Attorneys** [4] - 2:10, 267:9, 304:12, 221:22, 290:24, 2:20, 3:9, 3:21 304:24 384:24, 385:20, attracted [1] - 281:24 assignment [7] -391:16, 391:24, attributable [1] -155:3, 155:5, 416:10, 419:14, 422:9 155:10, 156:23, 419:23, 420:15 attributes [1] - 423:3 327:3, 347:6, 348:22 assumptions [26] authority [11] - 15:10, Assistant [2] - 152:3, 157:4, 157:23, 15:11, 22:22, 35:24, 322:16 158:3, 158:15, assistant [12] - 105:2, 36:7, 305:16, 159:11, 160:21, 305:19, 305:21, 105:4, 105:6, 105:7, 179:22, 180:2, 305:25, 311:12, 106:3, 106:15, 180:3, 180:4, 108:1, 108:3, 108:8, 334:17 180:14, 186:4, authorization [2] -108:12, 332:21 186:5, 186:23, 96:11, 96:18 assisted [2] - 195:11, 188:10, 190:20, authorize [1] - 96:21 347:1 190:22, 191:1, authorized [6] - 11:13, assisting [2] - 67:16, 193:22, 193:24,

214:16, 214:18,

279:16

Associate [2] - 3:6,

autographed [1] -83:5 autographs [1] -83:22 automatic [1] - 314:23 automatically [2] -226:25, 234:15 availability [1] -392:23 available [10] - 39:25, 40:4, 49:11, 91:8, 190:1, 191:4, 227:8, 327:8, 349:3, 393:3 Avenue [8] - 1:15, 2:3, 2:11, 2:15, 2:21, 3:10, 3:16, 3:21 average [80] - 157:20, 158:24, 160:15, 160:23, 160:25, 163:21, 163:25, 166:18, 174:17, 174:22, 177:22, 197:23, 199:20, 199:24, 200:17, 200:19, 206:1, 213:22, 354:21, 359:18, 361:25, 362:1, 382:1, 382:2, 382:25, 383:20, 387:17, 388:10, 389:1, 389:12, 389:16, 389:18, 389:19, 389:23, 390:2, 390:7, 390:8, 390:9, 390:10, 390:17, 391:19, 403:6, 403:20, 403:23, 403:24, 404:4, 404:5, 404:18, 405:11, 405:20, 405:22, 406:2, 409:21, 410:15, 410:17, 410:20, 414:7, 414:18, 415:7, 416:23, 416:25, 417:20, 417:22, 419:9, 420:1, 420:3, 423:17, 423:18, 423:19, 423:21, 424:6, 424:9, 424:12, 445:18 averages [12] -161:15, 161:23, 163:3, 164:20, 381:25, 382:5, 382:8, 382:9, 424:14 avoid [1] - 6:9

<del>.**23 of 172</del> Page 5**</del> award [1] - 152:18 aware [58] - 9:1, 9:9, 9:11, 9:16, 11:14, 13:14, 19:14, 21:12, 22:5, 22:6, 23:11, 23:21, 30:17, 31:19, 35:2, 35:7, 35:16, 36:20, 42:24, 43:2, 66:15, 73:6, 74:9, 78:1, 94:4, 96:20, 96:23, 100:25, 109:3, 109:13, 110:25, 113:13, 113:17, 117:14, 117:16, 118:24, 145:2, 145:6, 147:7, 182:10, 197:5, 238:17, 243:1, 245:22, 246:3, 246:5, 248:2, 248:20, 249:10, 250:9, 257:16, 257:17, 257:18, 273:14, 274:2, 315:18, 325:23, 332:2 awareness [4] - 9:13, 22:1, 274:9, 274:23 axis [1] - 170:1

Page

autograph [2] - 83:7,

83:21

# В

**baby** [1] - 160:18 Bachelor [1] - 346:21 backed [1] - 341:16 background [5] -48:11, 322:5, 346:20, 412:8, 413:4 backup [1] - 80:7 backups [1] - 71:4 backwards [1] -173:16 bad [1] - 44:9 bag [9] - 88:14, 236:14, 236:15, 237:2, 384:7, 384:8, 384:13, 384:19, 384:20 bags [2] - 190:4, 237:3 ball [205] - 12:4, 12:20, 16:22, 17:13, 23:22, 36:19, 36:20, 41:8, 41:9, 49:7, 49:25, 50:8, 50:12, 51:25, 52:1, 52:2, 52:8, 52:20, 52:22, 53:5, 53:10, 53:13, 53:15, 53:16, 53:18, 53:25, 54:6, 54:7, 54:9, 55:3, 55:6, 55:17,

31:22, 40:23, 96:15,

137:5, 275:4

ument 28-230 <del>4 of 172</del>Page 6 <del>case 1:15-c</del>\ 06/04/15 55:18, 56:5, 56:6, 385:10, 386:14, 160:3, 160:8, 160:9, 253:2, 273:17, 387:13, 387:16, 386:18, 386:22, 160:10, 161:4, 387:17, 387:20, 56:21, 57:2, 57:5, 275:20, 276:2, 58:8, 59:5, 59:23, 386:23, 389:3, 161:5, 162:22, 276:7, 276:11, 388:2, 388:4, 68:11, 69:10, 70:17, 398:14, 400:17, 162:23, 163:7, 276:15, 276:24, 388:10, 388:12, 72:21, 73:19, 75:15, 401:1, 402:2, 163:12, 163:13, 277:20, 278:3, 388:18, 388:19, 389:2, 389:9, 77:10, 92:13, 93:2, 405:25, 407:1, 163:17, 164:3, 278:12, 285:18, 164:4, 164:7, 164:8, 407:4, 407:7, 411:2, 389:13, 389:22, 97:22, 100:18, 287:8, 288:19, 164:10, 164:22, 100:23, 100:24, 416:6, 418:13, 288:25, 289:4, 390:3, 390:4, 167:14, 167:16, 289:5, 289:9, 390:12, 390:22, 101:3, 101:4, 101:7, 418:14, 422:3, 390:24, 391:8, 114:1, 114:4, 114:5, 428:3, 428:4, 428:5, 167:24, 168:4, 290:24, 291:4, 115:1, 116:8, 431:10, 431:15, 168:5, 168:18, 291:24, 292:14, 391:9, 391:25, 116:13, 116:19, 439:8 168:21, 169:21, 292:19, 293:2, 396:5, 396:11, 116:21, 116:22, ball-by-ball [1] - 382:7 170:6, 170:12, 293:5, 293:7, 396:13, 398:18, 293:10, 293:13, 399:16, 399:18, 117:7, 119:21, 170:21, 171:1, ball-to-ball [4] -119:25, 120:2, 171:2, 171:5, 171:9, 293:19, 293:23, 399:21, 399:23, 212:19, 213:6, 120:5, 120:7, 120:8, 293:24, 307:14, 400:5, 400:24, 213:24, 215:6 171:11, 171:15, 120:9, 120:12, balloon [1] - 92:13 174:8, 174:9, 307:20, 308:5, 401:7, 401:8, 401:9, 120:17, 120:18, 174:17, 174:23, 308:9, 308:17, 401:12, 401:13, balls [469] - 12:16, 401:17, 403:7, 121:4, 121:8, 174:25, 175:2, 309:3, 318:14, 12:21, 12:24, 13:7, 121:25, 142:14, 176:13, 176:14, 318:15, 318:16, 403:8, 406:3, 406:7, 13:10, 13:11, 16:13, 143:3, 145:4, 145:9, 176:15, 177:7, 318:18, 318:19, 406:16, 407:1, 16:17, 16:20, 17:8, 145:19, 147:21, 178:13, 178:15, 318:20, 318:22, 407:8, 407:12, 17:9, 18:17, 18:23, 147:22, 161:17, 18:24, 18:25, 19:3, 178:17, 179:4, 318:23, 319:2, 407:17, 407:18, 168:15, 171:21, 179:7, 181:5, 181:7, 319:14, 328:1, 414:2, 414:8, 19:5, 22:20, 24:11, 171:25, 172:22, 182:11, 182:16, 328:2, 350:8, 415:24, 416:2, 26:7, 26:16, 34:3, 173:3, 173:4, 183:14, 183:15, 350:22, 350:23, 416:7, 416:8, 34:5, 37:22, 48:15, 190:24, 191:7, 183:22, 184:1, 352:23, 354:19, 417:21, 417:22, 48:23, 49:5, 49:11, 191:8, 191:13, 184:12, 185:16, 354:21, 356:5, 418:1, 418:2, 418:3, 49:15, 50:3, 50:4, 191:15, 192:4, 50:6, 50:18, 50:22, 185:18, 187:17, 356:8, 356:11, 418:9, 418:11, 192:10, 211:15, 188:15, 189:7, 358:7, 358:24, 422:9, 425:17, 50:23, 51:2, 51:24, 189:8, 189:10, 359:4, 360:9, 362:4, 432:4, 442:24, 212:19, 213:6, 52:20, 53:9, 55:22, 189:15, 190:3, 362:6, 362:10, 446:23, 447:1, 213:18, 213:24, 56:8, 56:10, 56:24, 447:17, 447:19, 214:2, 214:3, 214:4, 192:22, 193:2, 362:11, 362:20, 56:25, 57:10, 58:4, 193:4, 193:11, 363:22, 364:8, 447:21, 449:17, 214:7, 214:11, 58:9, 59:1, 59:2, 193:13, 197:8, 364:13, 364:15, 449:24, 449:25, 214:22, 214:24, 59:4, 59:8, 59:10, 215:2, 215:6, 59:20, 61:8, 62:23, 200:17, 200:18, 365:10, 365:15, 450:13, 450:16, 217:11, 224:10, 205:5, 206:11, 365:24, 367:5, 450:23, 455:9 63:8, 64:1, 64:25, 229:21, 233:3, 206:12, 211:21, 367:21, 367:22, band [6] - 405:4, 65:1, 65:16, 67:12, 367:23, 367:25, 233:9, 234:5, 236:6, 214:21, 215:4, 405:5, 405:8, 405:9, 67:25, 68:3, 68:9, 236:13, 237:7, 215:15, 215:20, 368:4, 368:9, 409:18, 410:2 68:19, 68:25, 69:5, 368:17, 368:18, 237:8, 239:15, 215:25, 216:4, 69:12, 69:25, 70:15, bands [2] - 387:7, 239:20, 239:24, 70:16, 70:24, 71:7, 216:7, 216:9, 369:4, 369:5, 370:1, 409:23 239:25, 240:4, 71:19, 71:23, 71:24, 216:15, 216:20, 370:3, 370:4, 372:9, bargaining [6] - 28:19, 240:17, 240:19, 217:3, 217:14, 373:24, 374:25, 72:4, 72:5, 72:11, 31:1, 31:8, 31:13, 240:20, 246:11, 217:24, 218:2, 376:1, 378:5, 72:15, 72:25, 73:5, 32:3, 334:14 246:13, 250:4, 218:6, 218:11, 378:12, 381:7, 74:11, 76:22, 76:25, base [2] - 201:10, 254:1, 255:6, 220:16, 221:5, 381:10, 382:1, 77:12, 77:13, 77:16, 316:6 257:15, 257:16, 82:4, 92:20, 93:10, 224:11, 229:7, 382:2, 382:3, 382:5, baseball [2] - 12:7, 259:24, 274:18, 230:13, 231:3, 382:14, 382:15, 94:3, 94:6, 95:15, 56:23 282:12, 292:11, 233:1, 233:21, 382:16, 382:20, 113:22, 116:12, Based [1] - 273:11 304:10, 314:13, 235:6, 235:12, 382:21, 383:7, 117:7, 118:8, based [78] - 19:17, 314:22, 319:22, 235:13, 235:21, 383:18, 383:20, 118:18, 119:1, 28:8, 32:25, 41:23, 235:24, 236:15, 384:6, 384:8, 320:1, 320:3, 320:9, 119:23, 120:4, 41:24, 41:25, 42:1, 236:19, 236:21, 384:10, 384:13, 328:13, 350:7, 121:15, 122:9, 42:2, 43:13, 46:21, 351:7, 356:4, 122:22, 123:14, 236:23. 236:24. 384:19, 384:20, 79:7, 114:21, 360:21, 362:24, 144:9, 144:10, 237:1, 238:1, 238:3, 384:21, 384:24, 139:16, 163:3, 362:25, 367:4, 238:9, 238:11, 384:25, 385:2, 144:14, 146:2, 166:17, 208:17, 378:8, 381:17, 238:21, 239:11, 385:13, 385:14, 147:2, 147:24, 209:12, 209:13, 382:7, 384:9, 240:9, 240:12, 386:8, 386:15, 148:2, 155:8, 159:4, 209:19, 209:22, 241:5, 246:17, 387:1, 387:2, 387:3, 384:16, 384:17, 159:5, 159:12, 214:9, 215:15, 385:5, 385:8, 249:5, 250:10, 387:6, 387:12, 159:16, 160:1,

Case 1:15-cv-0	5916-RMB-JCF D	rcument 28-230 Fi	ed 08/04/15 Page	<del>125 of 172</del> Page
220:3, 222:15,	become [7] - 43:17,	bet [2] - 453:3, 453:4	<b>bills</b> [8] - 43:21,	bouncing [1] - 316:7
224:1, 224:5, 225:3,	66:10, 66:15, 74:8,	better [8] - 14:5, 14:7,	111:10, 111:24,	bounty [5] - 26:25,
225:9, 226:22,	113:17, 261:20,	43:12, 73:18, 161:8,	140:14, 140:18,	45:2, 45:16, 46:7,
236:11, 236:18,	261:21	170:15, 203:13,	266:25, 279:16,	46:8
242:3, 243:19,	becomes [2] - 168:8,	455:17	338:4	<b>Bowl</b> [23] - 71:16,
244:19, 246:5,	451:25	between [71] - 34:24,	<b>Billy</b> [1] - 322:14	71:20, 76:3, 76:11,
247:1, 255:13,	<b>BEFORE</b> [1] - 1:19	36:9, 59:11, 59:24,	binder [2] - 298:10,	76:13, 77:3, 77:8,
256:4, 256:9, 274:4,	began [1] - 87:8	67:14, 73:9, 92:4,	331:18	77:14, 77:24, 79:21,
274:16, 290:23,	<b>begin</b> [2] - 304:25,	92:7, 104:15,	<b>binding</b> [1] - 46:5	81:10, 84:21,
301:12, 303:1,	406:7	111:12, 111:25,	BIRCH [1] - 2:6	111:13, 128:20,
303:24, 304:12,	beginning [14] - 8:24,	112:1, 113:14,	<b>Bird</b> [3] - 92:5, 92:6,	130:15, 133:1,
308:7, 308:22,	108:16, 113:20,	113:22, 120:20,	92:18	141:21, 141:23,
308:23, 319:14,	159:19, 170:10,	122:22, 130:4,	<b>bird</b> [1] - 92:11	142:1, 142:9,
324:15, 327:8,	183:24, 290:23,	130:24, 134:25,	<b>bit</b> [18] - 43:7, 53:5,	142:19, 142:21,
327:11, 349:3,	292:17, 301:17,	135:15, 139:20,	168:19, 181:2,	142:25
349:5, 352:19,	383:10, 383:12,	140:12, 140:20,	216:21, 321:6,	Bowls [3] - 47:25,
354:2, 354:6,	384:2, 387:15,	159:4, 159:7, 161:3,	349:13, 395:13,	77:18, 81:5
354:10, 354:17,	398:10	163:24, 169:20,	401:13, 402:2,	<b>box</b> [2] - 127:4, 230:18
357:24, 358:11,	begins [3] - 170:8,	171:12, 181:4,	410:10, 419:21,	<b>boy</b> [6] - 36:19, 41:8,
361:13, 362:5,	182:2, 332:5	184:6, 192:25,	420:13, 435:17,	75:15, 78:19, 78:25,
362:6, 362:21,	behalf [4] - 7:19,	197:7, 200:20,	442:1, 447:18	254:1
363:4, 391:24,	121:20, 333:21,	205:4, 206:1,	black [1] - 420:20	<b>boys</b> [8] - 54:6, 384:9,
398:13, 404:17,	344:5	206:11, 218:2,	Blakeman [3] - 160:2,	385:5, 385:8,
410:9, 417:9,	behavior [4] - 44:22,	225:2, 248:5, 266:7,	292:23, 407:20	386:14, 407:1,
421:13, 435:4,	245:21, 357:4, 357:5	323:5, 327:20,	blame [1] - 19:22	407:4, 407:7
436:12, 446:5,	belief [3] - 18:2, 162:2,	327:25, 328:1,	Blandino [2] - 228:25,	<b>Brad</b> [3] - 101:23,
447:22, 455:6	181:2	332:25, 341:4,	229:2	102:1, 324:12
<b>bases</b> [1] - 225:12	believes [1] - 13:24	354:22, 354:23,	blessed [1] - 284:23	<b>Brady</b> [129] - 6:12,
<b>basic</b> [10] - 33:1, 34:2,	belonged [1] - 259:9	355:14, 356:11,	block [2] - 130:2,	7:19, 9:1, 10:15,
162:22, 167:14,	Belonged [1] - 300:5	358:14, 362:2,	133:22	10:23, 14:4, 14:7,
169:8, 185:22,	Belonging [2] -	365:3, 368:17,	blown [1] - 93:10	15:14, 20:22, 21:25,
201:20, 216:18,	258:22, 258:24	405:10, 407:9,	<b>blue</b> [1] - 403:19	23:3, 29:2, 29:11,
446:12	belonging [1] - 259:5	409:19, 414:8,	board [1] - 284:15	29:24, 31:6, 31:24,
<b>basis</b> [21] - 8:6, 10:4,	below [21] - 11:12,	418:10, 418:12,	Board [1] - 322:15	32:5, 32:13, 35:1,
19:16, 20:22, 21:4,	35:21, 40:9, 63:20,	431:19, 432:14,	<b>Body</b> [1] - 26:3	35:23, 36:10, 36:22,
36:23, 37:7, 41:1,	121:12, 166:20,	433:21, 434:24,	<b>bolded</b> [3] - 167:5,	37:2, 37:10, 37:17,
83:14, 127:23,	185:19, 187:19,	440:25, 442:23,	169:19, 172:4	37:19, 38:7, 38:14,
165:17, 203:22,	238:11, 240:9,	450:15, 450:22,	<b>bolts</b> [1] - 318:18	39:11, 39:15, 39:23,
218:24, 285:14,	278:17, 316:6,	453:17, 455:17	<b>book</b> [6] - 59:8,	40:16, 42:10, 42:23,
296:5, 334:11,	364:9, 365:16,	<b>beyond</b> [8] - 30:9,	115:11, 115:18,	45:21, 47:4, 47:11,
372:22, 386:9,	376:1, 378:9,	81:18, 227:6,	119:12, 298:9	47:13, 48:14, 50:16,
387:23, 404:4,	378:13, 400:12,	324:25, 325:10,	<b>books</b> [1] - 395:8	57:13, 71:9, 86:22,
437:13	420:6, 420:16,	352:3, 422:7, 422:8	bordering [1] - 321:20	86:24, 89:17, 91:10,
Basketball [1] -	425:23	<b>bias</b> [6] - 309:18,	bore [1] - 38:20	91:21, 97:12, 100:8,
322:17	<b>belt</b> [1] - 283:7	339:19, 339:22,	<b>boss</b> [1] - 60:20	100:10, 102:6,
Bat [1] - 80:2	bench [1] - 156:10	339:25, 340:5,	bottom [23] - 92:2,	104:7, 104:12,
Bates [3] - 104:12,	benchmark [4] -	340:11	94:21, 95:6, 105:17,	104:13, 105:14,
222:1, 367:15	164:11, 166:21,	biased [1] - 340:7	111:20, 111:21,	124:22, 125:3,
<b>bathroom</b> [3] - 34:20,	181:22, 183:13	<b>big</b> [7] - 12:17, 45:20,	124:23, 129:13,	126:3, 126:18,
317:4, 317:6	<b>benefit</b> [1] - 396:9	186:9, 269:7,	133:21, 144:25,	129:13, 129:14,
baton [1] - 150:4	<b>BENJAMIN</b> [1] - 3:12	322:18, 337:21, 435:24	158:15, 162:24,	129:22, 131:10,
<b>bear</b> [2] - 295:16,	Bernie [1] - 322:17		181:24, 183:11,	131:23, 132:7,
296:9	best [18] - 6:19, 21:2,	<b>bigger</b> [2] - 162:23, 436:7	185:16, 188:16,	132:18, 134:3,
bearing [1] - 28:14	50:14, 208:8, 208:9,		190:8, 194:2,	139:20, 140:12, 140:15, 149:11,
bears [1] - 279:2	265:20, 292:4,	biggest [1] - 315:24	326:25, 333:7,	
became [6] - 40:4,	292:8, 297:15,	bill [1] - 279:11	333:14, 453:3, 453:4	249:9, 250:14, 269:20, 270:7,
117:16, 230:25,	302:22, 303:12,	<b>billed</b> [3] - 279:8, 279:9	bottom-line [2] -	270:23, 273:5,
347:5, 413:22,	323:1, 352:20,		183:11, 194:2	270.23, 273.5, 273:7, 273:13,
415:12 <b>Bocker</b> (4) - 152:16	353:4, 396:19,	<b>billing</b> [1] - 279:19	bought [3] - 218:21,	273:19, 273:22,
<b>Becker</b> [1] - 152:16	417:18, 448:14	<b>Bills</b> [1] - 55:1	378:18, 379:16	210.10, 210.22,
				06/25/2015 02:42:

ument 28-230 <del>6 of 172</del>Page 8 08/04/15 Case 1:15-cv 274:2, 274:9, breaks [2] - 52:20, 367:19 378:22 303:17, 304:5, 317:20, 317:23, 274:17, 275:7, bump [3] - 168:12, 88:16 California [2] - 4:4, 321:16, 323:20, 275:16, 275:22, Brees [1] - 64:11 174:6, 175:20 346:2 275:25, 276:22, Brett [1] - 44:23 bunch [4] - 76:21, Caligiuri [18] - 345:2, 342:10, 352:10, 276:24, 293:6, bricks [1] - 62:24 219:7, 328:14, 345:11, 345:13, 381:1, 383:22, 383:23, 395:11, 304:9, 304:17, 354:2, 371:14, brief [8] - 28:17, 351:12 417:18, 434:12, 305:3, 305:11, burden [2] - 31:10, 373:13, 373:16, 36:18, 40:2, 43:1, 437:8, 441:11 306:4, 310:20, 127:14, 181:1, 41:14 373:19, 373:20, 311:9, 311:13, 260:22, 260:23 BURLING [1] - 2:10 396:1, 402:22, Case [6] - 176:10, 312:15, 313:5, burns [2] - 333:20, 413:11, 416:5, 176:11, 221:24, briefer [1] - 28:18 314:2, 314:6, 425:2, 425:20, 417:24, 420:5, 335:11 briefly [10] - 21:6, 316:24, 325:22, 420:11 BURNS [1] - 3:17 426:4, 426:11, 429:9 84:18, 143:10, 326:2, 326:5, 326:7, **CALIGIURI** [2] - 4:14, caselaw [1] - 46:21 259:14, 346:19, **bus** [1] - 276:20 326:10, 326:15, 358:10, 402:19, business [4] - 16:1, cases [24] - 27:1, 36:5, 331:15, 332:1, 403:4, 413:5, 454:19 Callendar [2] - 307:5, 45:23, 154:21, 153:4, 153:25, 447:9 332:20, 334:21, 307:12 154:24, 167:7, briefs [6] - 21:7, Business [1] - 151:5 335:8, 335:15, 174:4, 188:7, 196:5, calm [1] - 251:21 28:13, 456:7, 456:9, **buy**[1] - 301:19 336:12, 336:20, 196:6, 196:10, camp [2] - 55:12, 456:15, 456:18 **BY** [33] - 1:22, 2:4, 336:24, 339:3, 196:14, 208:22, bring [9] - 93:6, 75:16 2:12, 2:16, 2:22, 3:4, 340:25, 341:4, 245:6, 317:14, 114:22, 119:3, candid [2] - 306:11, 3:11, 3:17, 3:22, 4:5, 341:20, 396:15, 323:11 322:24. 324:22. 123:14, 128:18, 47:9, 100:6, 139:4, 400:17, 401:4 325:2, 381:1, 381:3, candidly [1] - 20:3 172:22, 223:11, 143:12, 150:12, BRADY [13] - 1:5, 417:17, 433:24, 318:16, 346:12 cannot [4] - 221:11, 194:20, 227:24, 3:21, 4:3, 4:9, 5:15, 434:6, 437:1 242:10, 357:15, brings [1] - 348:12 251:7, 255:9, 401:3, 401:5, cash [1] - 136:4 broached [1] - 279:21 358:9 259:15, 261:7, 401:18, 401:21, catch [1] - 54:5 broad [2] - 36:8, 321:25, 340:19, capable [1] - 355:7 401:25, 402:6, caught [2] - 249:2, 345:7, 373:9, capacity [1] - 323:7 153:13 402:14, 402:17 324:18 402:20, 408:4, captures [1] - 445:8 **broke** [6] - 34:13, Brady's [17] - 26:12, caused [6] - 34:11, 411:22, 427:18, 54:1, 69:25, 77:12, cards [2] - 105:19, 32:19, 39:6, 39:18, 328:5, 328:13, 438:3, 439:19, 120:4, 309:12 106:12 43:10, 44:2, 44:9, 329:16, 350:25, 448:12, 454:20 broken [2] - 55:16, care [4] - 110:5, 48:11, 149:19, 355:14 276:16, 284:12, 309:7 271:5, 279:3, 312:8, causes [12] - 17:1, C 347:18 brought [28] - 59:9, 313:15, 313:19, 373:23, 388:1, 92:16, 93:5, 115:4, cared [1] - 147:12 331:22, 333:10, C-A-L-I-G-I-U-R-I [1] -388:14, 388:21, 155:6, 160:8, career [7] - 48:1, 51:4, 337:8 345:12 389:6, 389:10, 169:10, 169:11, 51:6, 54:6, 58:1, brain [3] - 94:20, 95:5, 389:24, 390:6, calculate [4] - 420:5, 170:7, 170:12, 119:20, 151:11 144:23 424:9. 424:11. 390:21, 392:20, 170:21, 171:11, careful [4] - 165:15, brand [4] - 49:9, 408:21 424:13 171:15, 172:23, 241:19, 252:8, 68:23, 69:12, 76:13 causing [2] - 355:2, calculated [7] -184:9, 189:15, 349:24 brand-new [1] - 68:23 396:6 166:13, 364:11, 220:23, 221:1, carefully [4] - 184:23, breach [2] - 34:21, 365:8, 372:21, caution [1] - 157:7 229:14, 229:19, 263:6. 349:18. 234:4 381:23, 418:20, cautious [1] - 435:6 233:25, 291:4, 444:14 break [34] - 49:10, 432:14 Cave [1] - 80:2 353:1, 387:16, Carnegie [1] - 412:11 49:14, 49:18, 50:10, calculates [1] - 372:4 CBA [7] - 9:21, 28:3, 388:12, 389:4, Carolina [2] - 246:13, 52:20, 53:18, 53:19, calculation [1] -29:1, 29:8, 31:21, 389:9, 390:4 259:25 54:4, 54:9, 56:21, 375:13 36:1, 40:23 brunt [1] - 57:24 carried [3] - 189:11, 66:24, 67:1, 68:23, brush [1] - 153:13 calculations [5] celebrity [1] - 43:11 407:4, 419:17 69:21, 70:24, 76:15, 365:22, 371:3, bucket [2] - 337:21, cell [14] - 87:2, 87:5, case [44] - 8:16, 11:3, 77:9, 88:12, 99:22, 372:1, 375:21, 352:6 87:10, 87:11, 87:15, 24:4, 29:18, 36:6, 99:25, 148:8, 166:1, 442:10 87:17, 87:18, 87:25, buckets [3] - 332:16, 36:7, 36:18, 44:18, 194:15, 247:6, calibrated [10] -88:4, 89:10, 103:6, 333:3, 352:5 46:8, 71:4, 97:13, 260:22, 260:23, 184:25, 216:20, 109:19, 305:21, bud [5] - 79:6, 79:10, 169:1, 174:4, 174:6, 294:13, 315:14, 218:16, 294:20, 337:10 94:24, 95:9, 133:25 174:12, 176:8, 317:3, 317:6, 294:24, 302:1, centered [1] - 76:24 **Buffalo** [1] - 55:1 178:9, 178:11, 343:20, 395:18, 302:4, 316:10, central [1] - 445:8 Building [1] - 2:11 187:25, 200:7, 395:22 353:18, 426:21 CERN [2] - 441:3, built [1] - 328:20 218:14, 242:5, breaking [5] - 56:21, calibration [6] bullet [6] - 38:12, 242:7, 247:11, 453:2 69:10, 76:12, 76:25, 372:16, 372:20, certain [10] - 22:15, 163:23, 164:1, 270:4, 290:20, 88:18 377:4, 377:6, 377:7, 40:9, 49:5, 104:25, 169:9, 169:18, 290:23, 301:17,

ument 28-230 <del>7 of 172</del>Page 9 08/04/15 Jase 1:15 KMP-2C 110:12, 205:10, 64:22, 65:15, 88:21, 275:14, 275:16 189:2, 219:7, 333:21, 334:7 214:16, 315:6, 88:24, 96:12, 97:19, cited [5] - 9:23, 15:12, 327:12, 350:1, **clients** [1] - 345:23 22:22, 250:19, 315:12, 436:20 114:1, 114:4, 146:8, clock [3] - 415:20, 358:20, 358:21, certainly [20] - 15:17, 146:19, 151:22, 311:22 416:9, 416:11 380:4 35:6, 36:22, 39:22, 158:4, 158:15, cites [1] - 78:5 collection [1] - 153:2 close [9] - 131:5, 161:15, 169:13, 41:3, 42:9, 99:19, citing [1] - 426:8 165:19, 165:23, collective [8] - 28:19, 121:12, 144:12, 174:22, 201:19, 166:2, 218:15, 31:1, 31:7, 31:13, citizens [1] - 20:24 266:15, 269:21, 194:9, 215:3, 266:5, civil [5] - 31:11, 280:11, 302:2, 32:3, 291:21, 288:9, 330:25, 272:25, 374:3, 324:22, 325:3, 418:23 324:14, 334:14 378:24, 407:21, 351:6, 351:15, closed [1] - 395:7 college [2] - 47:14, 433:24, 434:12 407:23, 420:22, 352:13, 364:21, closer [1] - 425:19 53:4 claim [8] - 205:17, 370:13, 375:6, 437:6 Collider [1] - 441:3 285:19, 416:20, closes [1] - 21:10 381:17, 425:11 certainty [4] - 40:22, Colts [66] - 66:22, 417:5, 418:17, cloud [2] - 312:20, 316:16, 317:16, changed [6] - 89:4, 425:24, 449:7, 450:6 339:7 116:16, 160:15, 317:18 89:7, 145:25, 331:8, claimed [1] - 418:7 160:25, 161:17, CLR [1] - 1:23 certified [1] - 334:12 401:6, 401:16 161:23, 168:16, claims [3] - 91:21, club [11] - 22:11, Certified [1] - 457:13 changes [1] - 356:21 180:10, 189:25, 249:20, 445:22 22:23, 22:24, 22:25, changing [1] - 382:6 certify [1] - 457:8 200:20, 229:18, clarification [1] -23:14, 24:5, 99:7, characterization [3] cetera [1] - 250:24 229:23, 230:8, 299:2 120:21, 120:23, chain [2] - 18:14, 199:6, 202:7, 204:7 clarify [1] - 261:18 252:21 235:12, 236:3, characterize [1] -236:7, 236:20, 335:18 clubhouse [1] clarifying [1] - 264:20 199:10 239:19, 239:24, chair [4] - 295:17, 288:24 **clarity** [1] - 290:4 characterized [3] -239:25, 240:4, 440:10, 440:12, clubs [3] - 46:9, 46:16, Clark [1] - 152:17 255:21, 256:2, 423:1 240:12, 240:17, 440:14 250:23 class [2] - 281:9, 287:9, 293:12, challenging [2] characters [1] -Clubs [1] - 98:14 444:9 222:18, 223:4 351:24 293:15, 293:21, co [5] - 152:16, classes [1] - 152:12 charged [1] - 228:12 294:1, 294:2, 294:4, championship [4] -261:16, 261:19, clear [44] - 7:6, 11:5, 294:7, 295:4, 295:7, Chart [1] - 398:25 13:6, 114:10, 115:5, 12:6, 22:12, 26:16, 262:18, 310:3 295:25, 296:3, 115:8 chart [1] - 409:24 co-lead [3] - 261:16, 27:23, 37:15, 41:22, 297:9, 310:17, Championship [42] charts [1] - 392:7 261:19, 310:3 51:5, 56:17, 61:12, 318:21, 320:4, 33:3, 37:18, 41:7, check [5] - 33:20. co-taught [1] - 152:16 72:8, 74:20, 96:9, 350:24, 351:1, 66:21, 67:13, 68:15, 98:2, 215:10, 122:19, 125:20, coach [2] - 53:4, 354:23, 356:6, 68:17, 68:19, 69:20, 283:22, 319:10 332:21 137:22, 177:5, 356:11, 358:15, 76:17, 78:10, 85:23, checked [6] - 35:10, 208:4, 221:15, Coach [6] - 142:13, 364:15, 368:7, 94:17, 96:11, 92:20, 121:24, 142:17, 143:2, 226:20, 233:14, 375:12, 376:3, 103:12, 103:15, 132:7, 157:7, 401:1 322:17, 326:6, 326:8 241:14, 241:15, 376:8, 381:17, 103:20, 121:1, chemistry [1] - 330:15 241:21, 242:1, coaches [5] - 22:11, 382:5, 383:5, 123:1, 124:8, Chicago [4] - 16:1, 244:13, 280:7, 22:25, 80:6, 99:8, 403:19, 403:21, 124:25, 125:2, 150:24, 151:1, 289:24, 304:16, 122:13 419:10, 419:15, 125:22, 141:21, 152:15 314:6, 314:8, 325:1, coefficient [2] - 425:7, 420:2, 424:7, 143:18, 146:1, chief [1] - 99:7 325:10, 326:1, 425:9 424:13, 437:5, 155:8, 189:3, 217:4, chips [1] - 153:20 336:17, 336:20, cold [8] - 16:18, 23:22, 438:24, 439:1, 439:3 229:13, 229:16, choice [1] - 432:25 348:19, 397:16, 234:16, 238:15, Colts' [110] - 16:19, 251:11, 261:17, 399:9, 421:1, 445:8, choose [2] - 49:22, 257:8, 291:5, 18:23, 18:24, 33:5, 263:17, 288:3, 445:25, 446:15 71:7 292:19, 314:23 144:9, 159:5, 160:3, 293:8, 296:19, choosing [1] - 50:17 clearer [2] - 413:22, colder [2] - 169:11, 160:9, 161:4, 304:11, 306:8, 415:12 chose [4] - 52:18, 178:16 162:23, 163:7, 327:18, 334:8, 359:1 clearest [1] - 444:20 429:6, 429:10, colleague [3] -163:13, 163:17, chance [19] - 11:17, clearly [9] - 22:23, 432:22 155:12, 270:3, 164:3, 164:8, 61:23, 76:21, 165:6, 31:2, 34:21, 35:11, chosen [4] - 119:16, 413:11 164:10, 164:22, 167:10, 167:22, 218:21, 271:9, 119:17, 162:7, 165:8 colleagues [6] -167:14, 167:16, 207:21, 208:24, 302:19, 445:2 Circuit [1] - 21:19 29:21, 89:19, 89:22, 167:24, 168:5, 208:25, 210:9, Clete [2] - 251:24, 264:19, 264:25, circumspection [1] -168:18, 169:21, 210:16, 222:8, 407:20 435:17 269:24 171:2, 171:5, 222:9, 222:10, client [14] - 266:11, collect [5] - 19:12, circumstances [3] -171:21, 172:22, 287:11, 287:14, 266:16, 266:21, 151:13, 314:12, 30:22, 357:23, 174:8, 174:17, 328:3, 328:5, 421:6 267:15, 267:16, 314:15, 323:2 405:14 174:23, 176:14, change [37] - 9:18, 268:12, 271:12, collected [11] circumstantial [1] -176:23, 178:16, 17:20, 34:2, 46:17, 271:16, 271:21, 151:22, 151:24, 32:23 179:7, 181:4, 51:13, 64:4, 64:6, 284:8, 323:6, 152:24, 157:14, cite [3] - 250:13,

ument 28-230 <del>.**28 of 17</del>2</del>age 10</del>** Case 1.15-CV 182:11, 182:16, coming [3] - 79:2, 189:21, 192:11, component [2] communications [13] 189:8, 190:24, 194:18, 221:25, 172:11, 293:7 - 8:15, 84:19, 90:20, 199:10, 413:2 225:19, 226:6. 191:10, 192:21, comment [7] - 60:6, 109:7, 265:11, components [1] -193:4, 197:7, 248:23, 249:7, 227:19, 230:3, 266:6, 266:12, 199:2 200:18, 205:5, 249:13, 269:11, 230:6, 233:13, 268:11, 276:5, composed [1] -252:2, 256:23, 206:11, 215:14, 399:1, 426:7 332:4, 332:19, 134:22 257:1, 260:20, 224:9, 224:11, commentary [6] -332:24, 333:22 computer [1] - 153:19 277:15, 386:4, 236:24, 240:9, 181:1, 371:22, community [1] computers [2] -240:18, 240:20, 396:7, 397:11, 422:10, 422:15, 154:15 128:18, 149:19 398:3, 398:6, 399:8, 289:4, 318:14, 427:11, 448:6 company [4] - 89:12, conceal [2] - 85:18, 318:15, 318:19, comments [9] - 60:9, 400:16, 400:20, 307:8, 345:20, 141:17 318:20, 328:2, 400:25, 401:15, 265:17, 267:25, 345:22 concede [2] - 221:9, 350:23, 354:20, 401:19, 401:22, 268:16, 268:18, company's [1] -451:2 358:7, 358:24, 402:1, 402:12, 269:5, 269:14, 345:18 conceding [4] - 159:6, 362:6, 362:9, 402:15, 404:1, 413:10, 417:8 comparable [2] -222:16, 361:15, 362:11, 364:12, 436:9, 439:14, **COMMISSIONER** [142] 44:22, 45:8 446:6 367:21, 367:22, 454:1, 454:4, compare [4] - 292:23, - 1:19, 6:5, 7:8, conceived [1] - 428:18 367:25, 368:4, 454:15, 457:4 7:18, 48:13, 49:16, 374:20, 382:4, 419:8 concept [3] - 164:16, 368:9, 368:17, Commissioner [54] -52:23, 54:12, 54:15, compared [17] -213:12, 288:8 369:5, 370:3, 2:5, 7:17, 22:14, 54:18, 56:1, 56:9, 159:5, 160:24, concern [7] - 11:25, 373:24, 376:15, 59:13, 59:17, 60:14, 25:16, 28:19, 33:9, 161:24, 163:5, 35:3, 79:4, 135:13, 381:7, 381:10, 60:18, 60:21, 60:24, 40:6, 40:13, 40:20, 163:9, 172:12, 136:14, 144:12, 382:1, 382:2, 61:12, 61:15, 62:6, 42:3, 45:5, 46:7, 178:16, 182:11, 178:12 382:14, 382:20, 48:12, 48:19, 48:23, 62:9, 65:18, 65:21, 185:16, 193:14, concerned [6] - 12:10, 52:6, 55:25, 56:3, 383:7, 383:18, 65:24, 66:2, 67:1, 224:7, 234:16, 136:5, 136:24, 383:20, 384:25, 62:8, 66:23, 77:1, 68:15, 69:13, 69:16, 361:25, 379:10, 142:4, 282:18, 77:7, 78:24, 80:1, 386:8, 387:3, 69:19, 70:4, 70:13, 382:9, 382:20, 422:1 282:25 387:13, 387:20, 83:9, 89:8, 90:16, 70:19, 70:22, 71:1, compares [1] - 372:5 concerning [1] -391:9, 403:8, 71:8, 71:12, 71:14, 91:20, 97:17, 99:8, comparing [7] -310:16 409:13, 414:8, 99:17, 99:20, 72:8, 74:20, 80:11, 163:16, 362:18, concerns [9] - 135:23, 416:1, 417:20, 105:12, 111:6, 80:15, 88:7, 88:17, 372:25, 374:15, 136:22, 136:25, 418:1, 418:2, 418:3, 145:23, 149:8, 88:23, 89:2, 89:14, 394:4, 403:2, 403:23 137:25, 138:18, 419:18, 420:2, 99:21, 99:24, 155:22, 158:20, comparison [5] -144:1, 145:18, 335:2 423:24, 434:25, 168:11. 194:12. 109:21, 117:3, 182:22, 183:25, conclude [15] - 10:14, 438:17, 442:23, 225:21, 226:16, 117:6, 117:9, 184:17, 361:21, 11:19, 36:13, 42:10, 449:25, 450:15, 228:23, 229:8, 117:13, 117:16, 419:24 46:23, 167:11, 450:22 243:17, 309:22, 117:22, 117:25, compelled [4] - 8:3, 181:14, 203:22, Columbia [12] - 280:9, 309:25, 337:5, 122:19, 124:18, 8:13, 8:24, 10:19 242:25, 292:7, 280:10, 280:13, 343:7, 392:17, 125:20, 128:1, compensated [1] -308:3, 343:9, 363:3, 280:14, 280:20, 395:16, 456:7, 133:10, 133:16, 270:16 393:3, 431:2 280:25, 281:1, 136:13, 136:19, 456:9, 456:20 compensation [1] concluded [15] -281:2, 281:14, 137:11, 137:14, Commissioner's [3] -196:22 273:18, 275:11, 281:22, 282:18, 171:18, 259:18, 137:16, 145:24, competition [5] -285:13, 291:17, 347:20 396:9 146:4, 146:7, 65:12, 65:14, 66:5, 303:11, 306:16, Columbia's [2] committee [5] - 65:12, 146:10, 146:14, 97:18, 97:23 354:16, 357:9, 65:14, 66:5, 97:18, 280:17, 281:7 146:16, 146:18, competitive [6] -360:5, 361:2, column [7] - 160:23, 146:22, 146:25, 97:23 24:15, 25:20, 46:15, 361:23, 363:6, 160:24, 161:1, 147:5, 147:10, common [6] - 165:2, 250:18, 272:5, 369:22, 370:15, 161:21, 330:7, 330:8 147:15, 147:23, 165:3, 181:10, 311:22 406:10 combination [4] -148:4, 148:6, 181:11, 433:13, Competitive [4] conclusion [44] -8:18, 192:7, 194:7, 148:10, 148:14, 449:1 24:24, 98:17, 98:24, 8:25, 17:22, 29:5, 358:3 148:18, 149:1, communicate [2] -99:10 30:20, 34:3, 34:5, combinations [2] -155:17, 155:23, 133:6, 146:19 complained [2] -38:5, 158:9, 167:1, 368:24, 369:16 156:4, 168:7, communicated [4] -167:23, 182:23, 12:19, 118:21 168:14, 168:23, combine [1] - 317:5 39:11, 125:11, completely [3] - 11:7, 183:11, 185:15, 170:9, 170:14, 125:15, 332:2 comfort [2] - 49:7, 188:14, 188:18, 169:9, 430:25 317:10 170:17, 170:22, communicating [2] -188:20, 188:21, complex [1] - 427:20 177:5, 178:1, 180:1, 62:18, 130:18 comfortable [3] -188:22, 188:23, compliance [4] -180:11, 180:13, 194:10, 316:18, Communications [1] -238:3, 238:10, 188:24, 210:5, 180:17, 180:20, 124:25 317:7 215:23, 220:1, 240:19, 240:22

ument 28-230 <del>.29 of 17</del>2age 11 case 1.15 222:18, 223:3, 201:5, 202:4, 455:16 155:18 contrast [3] - 181:6, 223:6, 223:22, 248:13, 263:14, conservative [1] consultant [2] - 103:4, 181:7, 239:19 225:15, 238:7, 305:25, 322:7, 455:18 283:5 contribute [1] -286:1, 309:4, 326:16 consider [20] - 31:6, consulted [2] -356:20 323:17, 354:11, Conduct [3] - 9:22, 32:16, 37:13, 38:3, 156:12, 156:14 contributing [5] -362:8, 363:13, 22:16, 25:4 40:15, 177:20, consulting [8] -348:3, 350:10, 366:9, 369:17, conducted [16] -180:6, 183:16, 152:11, 153:12, 357:14, 362:9, 370:17, 371:25, 23:13, 29:3, 30:24, 191:3, 207:11, 156:19, 195:14, 370:14 195:17, 195:20, 388:15, 388:18, 101:10, 157:24, 267:15, 280:2, contributions [1] -390:21, 392:24, 197:9, 204:15, 330:1, 344:14, 281:25, 345:22 355:24 421:15 209:12, 244:13, 348:11, 366:17, consumer [1] - 346:15 control [14] - 164:4, conclusions [71] -255:3, 263:19, 368:4, 377:1, 377:3, 164:5, 164:12, contact [8] - 51:2, 8:18, 8:19, 8:23, 264:3, 272:3, 423:25 164:21, 167:15, 90:24, 122:17, 32:24, 41:23, 66:8, 309:19, 327:11, consideration [2] -131:5, 131:6, 167:16, 167:17, 159:8, 159:9, 358:23 14:2, 416:15 280:23, 281:16, 167:18, 178:12, 165:12, 165:17, conducting [6] considered [14] -313:5 189:9, 192:24, 166:4, 167:5, 176:6, 264:9, 270:17, 30:3, 30:6, 30:13, 193:5, 367:22, 368:8 contacted [2] -178:8, 181:23, 272:9, 322:6, controlled [1] - 190:10 33:11, 33:25, 180:9, 280:17, 281:12 182:4, 189:1, 338:20, 357:1 182:21, 192:18, contacts [2] - 37:20, controls [4] - 167:24, 190:14, 190:19, confer [2] - 6:24, 207:12, 315:18, 91:2 367:22, 367:25, 194:8, 201:11, 342:18 333:24, 335:12, contain [2] - 320:22, 368:5 207:23, 208:14, conference [3] -367:8, 374:3 455:22 conversation [8] -209:21, 210:4, 142:14, 142:24, considering [3] contained [1] - 330:13 63:13, 78:11, 78:15, 211:17, 222:14, 309:17 31:25, 32:15, 180:5 79:8, 118:16, 264:2, contains [1] - 34:9 225:6, 267:4, 268:9, confession [1] - 95:19 consist [1] - 8:12 contemporaneously 275:22, 275:23 269:17, 285:6, consisted [1] - 199:2 confidential [3] -[1] - 306:23 conversations [8] -285:9, 285:14, 280:16, 280:23, consistency [5] -76:4, 76:8, 76:14, content [11] - 90:18, 285:15, 304:5, 344:17 27:7, 27:9, 27:12, 76:24, 81:19, 124:7, 107:17, 110:18, 316:12, 317:24, confidentiality [3] -46:24, 117:1 130:24, 131:4 110:22, 112:8, 317:25, 325:6, 282:23, 344:2, 344:3 consistent [21] -112:13, 112:17, converse [1] - 388:22 326:14, 331:1, confirm [1] - 304:3 26:24, 27:3, 41:4, 338:2, 338:5, 338:7, conversion [14] -331:8, 354:3, 354:5, confirmed [1] - 306:18 41:13, 44:1, 45:17, 338:8 185:3, 185:21, 354:10, 355:9, 147:24, 157:9, confirming [1] - 334:9 185:23, 185:25, contents [1] - 269:4 355:23, 356:13, 188:11, 249:11, confirms [1] - 332:11 186:1, 186:8, context [22] - 8:13, 356:16, 356:25, 294:9, 301:24, 186:17, 187:7, conflating [1] - 32:6 10:19, 32:16, 39:13, 357:18, 358:11, 302:24, 370:17, 187:11, 219:25, conflict [1] - 323:5 40:17, 41:6, 41:11, 361:8, 361:13, 375:22, 375:23, 220:11, 221:20, confused [3] - 300:15, 52:7, 61:23, 62:14, 363:17, 366:13, 403:13, 404:5, 372:8, 375:16 325:15, 402:9 92:25, 121:5, 367:11, 371:17, 420:8, 426:22, conversions [1] -121:11, 135:14, confusion [7] -373:5, 416:14, 431:20 185:14 138:21, 163:22, 241:10, 402:24, 427:12, 444:15, consistently [12] -277:2, 428:11, convert [8] - 184:24, 403:15, 442:18, 444:22, 444:25, 162:4, 186:15, 434:20, 436:3, 185:8, 185:25, 445:23, 449:12, 445:1, 446:5, 187:12, 216:2, 372:12, 372:15, 436:23, 438:9 449:15 447:25, 448:9 220:11, 294:25, 372:25, 375:14, connect [1] - 420:22 continue [7] - 66:24, condition [1] - 120:5 316:8, 355:13, 375:16 66:25, 181:23, Connecticut [1] - 3:21 conditioner [4] - 53:3, 355:17, 355:21, converted [2] connection [19] -226:19, 321:22, 53:17, 54:9, 55:3 367:5, 446:21 402:2, 449:13 185:24, 372:21 85:22, 104:9, conditions [8] consolidate [1] continued [5] - 2:25, convince [1] - 41:12 110:13, 110:17, 182:13, 352:22, 395:18 3:1, 3:25, 4:1, convincing [3] - 7:22, 196:18, 196:22, 353:4, 357:23, constantly [1] - 43:14 181:19 325:2, 325:10 197:1, 197:2, 359:5, 366:23, constituents [1] continues [2] cooling [1] - 428:5 198:19, 203:4, 422:3, 439:8 440:25 261:16, 279:23, 164:13, 164:14 cooperate [10] conduct [31] - 9:6, constituted [1] continuing [1] -14:14, 37:1, 37:8, 309:22, 310:2, 9:24, 25:6, 29:3, 155:16 310:22, 311:4, 372:13 37:11, 38:21, 44:25, 29:11, 29:16, 31:14, Constitution [1] - 28:5 312:24, 347:23, 45:4, 86:17, 312:5, continuously [4] -31:18, 32:2, 32:8, 366:18 constrained [1] -397:18, 398:1, 312:16 32:20, 33:15, 35:24, 386:13 connects [1] - 154:14 398:4, 398:5 cooperated [2] -36:4, 36:12, 36:13, consult [2] - 456:6, conscious [1] contract [4] - 28:4, 39:23, 39:24 38:15, 42:11, 42:18, 456:23 283:14 36:1, 36:3, 334:12 cooperating [2] -42:20, 42:24, 46:14, consultancy [1] -338:14, 341:25 consensus [1] contracts [1] - 90:21

ument 28-230 <del>.30 of 17</del>2age 12 TO-KMP-3CI cooperation [7] -215:2, 216:9, 333:12, 339:13, 226:16 creative [1] - 26:8 216:25, 217:25, 340:22, 341:8, 15:15, 44:14, 44:16, Cortez [1] - 24:5 credibility [6] - 13:24, 44:21, 45:11, 45:14, 218:3, 218:4, 220:4, 341:12, 341:20, cost [1] - 342:5 304:13, 304:20, 45:18 221:13, 221:17, 341:21, 341:23, costless [1] - 87:4 304:25, 338:17, cooperative [1] -221:18, 222:5, 342:21, 351:24, 339:7 COUNCIL [4] - 2:15, 222:11, 224:2, 351:25, 359:2, 341:5 2:20, 4:13, 5:20 credible [2] - 13:16, 224:16, 226:13, 359:3, 359:7, 359:9, copies [4] - 100:16, 242:25 counsel [20] - 7:5, 228:20, 229:8, 359:10, 359:13, 138:12, 138:15, 11:1, 29:25, 86:19, credit [2] - 190:7, 229:9, 234:3, 234:8, 359:14, 361:23, 225:24 104:9, 110:7, 338:24 362:12, 364:12, copy [12] - 64:19, 234:21, 234:25, 110:13, 110:21, Cremieux [1] - 155:13 235:3, 235:7, 364:21, 366:8, 98:12, 98:19, 98:23, 111:1, 140:10, criminal [3] - 31:10, 235:15, 235:22, 367:12, 367:13, 140:23, 256:3, 115:18, 124:12, 151:21, 151:22 236:8, 236:9, 375:3, 376:17, 124:13, 139:6, 270:18, 321:1, critical [5] - 37:3, 236:12, 237:15, 376:19, 376:20, 198:23, 262:23, 321:7, 321:11, 37:13, 39:9, 185:19, 238:12, 238:17, 378:17, 380:8, 262:24, 350:13 331:23, 395:9, 187:18 239:4, 239:7, 239:8, 387:4, 390:19, core [11] - 162:20, 395:12 critically [1] - 175:22 239:12, 239:13, 392:8, 392:10, 204:10, 204:13, Counsel [4] - 2:17, criticism [36] - 198:1, 392:11, 392:15, 239:22, 239:23, 207:14, 207:15, 3:5, 3:6, 266:7 198:6, 198:12, 240:2, 240:3, 240:9, 394:15, 395:6, 207:20, 211:25, counsel's [1] - 410:5 203:8, 219:16, 240:10, 241:1, 396:3, 396:13, 212:2, 275:15, count [3] - 196:5, 221:16, 221:24, 241:2, 241:7, 241:8, 396:18, 396:22, 286:18, 345:18 196:11, 226:8 324:18, 359:17, 242:7, 245:9, 398:11, 398:16, corporate [1] - 346:1 counted [1] - 196:16 359:21, 359:24, 250:22, 250:25, 399:20, 400:23, correct [304] - 6:10, counterintuitive [1] -361:6, 361:11, 251:1, 256:6, 404:15, 405:12, 12:13, 23:5, 27:18, 361:18, 363:14, 360:17 256:13, 256:16, 405:13, 406:12, 46:18, 71:20, 73:17, country [1] - 16:3 363:20, 363:25, 256:17, 257:5, 408:18, 408:21, 73:23, 86:3, 87:19, 366:10, 368:21, couple [11] - 124:9, 257:12, 258:5, 409:4, 410:14, 93:20, 101:17, 370:23, 371:13, 133:4, 145:24, 258:13, 258:21, 413:25, 414:11, 101:19, 102:6, 374:11, 380:24, 222:12, 261:24, 260:5, 263:7, 414:14, 428:8, 102:9, 102:21, 293:25, 318:4, 381:19, 414:16, 263:24, 264:4, 428:16, 428:20, 102:24, 103:12, 414:21, 414:22, 352:24, 416:24, 264:7, 269:23, 429:1, 429:8, 103:17, 103:21, 418:6, 444:17 416:15, 445:17, 270:5, 270:8, 429:11, 429:25, 104:1, 106:4, 106:8, 445:21, 446:4, course [16] - 9:19, 430:1, 430:2, 271:10, 272:10, 106:20, 107:2, 446:9, 446:25, 49:13, 57:7, 57:13, 272:11, 273:3, 430:18, 430:24, 107:12, 107:13, 447:5, 449:7, 455:19 129:23, 134:22, 273:21, 274:18, 431:4, 431:16, 107:19, 107:25, 152:21, 152:22, criticisms [6] -274:25, 276:6, 432:6, 432:18, 108:4, 108:13, 359:12, 368:15, 152:25, 153:11, 277:3, 277:6, 432:25, 433:4, 108:18, 108:22, 154:3, 154:17, 414:14, 422:11, 285:10, 285:11, 433:17, 434:3, 445:14, 447:22 110:14, 110:23, 156:13, 157:2, 285:20, 285:21, 434:4, 435:25, 110:24, 112:2, 443:15, 454:14 criticizing [1] - 330:24 286:9, 286:11, 445:1, 448:21, 113:15, 114:1, CROSS [7] - 100:6, Court [1] - 434:13 288:19, 288:25, 450:5, 450:23, 114:9, 118:5, 194:20, 251:7, court [7] - 6:6, 7:6, 289:1, 289:6, 289:7, 450:24, 451:3, 118:12, 119:14, 321:25, 373:9, 211:6, 284:1, 284:3, 289:11, 289:21, 452:8, 452:9, 121:4, 121:9, 427:18, 448:12 348:12, 348:17 289:23, 290:15, 452:13, 452:14, 121:15, 121:18, cross [11] - 20:11, court-appointed [3] -292:2, 292:5, 292:6, 455:2, 455:11, 457:9 123:3, 128:12, 20:17, 165:9, 284:1, 348:12, 295:24, 295:25, corrected [2] - 308:15, 136:10, 138:13, 165:19, 194:16, 348:17 296:1, 296:8, 447:10 139:23, 139:25, 270:7, 270:17, cover [3] - 98:10, 296:25, 297:8, correcting [2] - 157:3, 140:24, 143:19, 270:22, 343:8, 98:11, 168:10 297:10, 297:11, 220:12 145:15, 166:25, 343:17 covered [4] - 94:9, 297:14, 297:17, correction [4] -183:2, 187:6, 195:9, Cross [2] - 5:14, 5:21 94:12, 151:18, 299:18, 300:18, 187:15, 216:3, 195:10, 195:12, CROSS-163:23 301:12, 302:7, 447:13, 447:14 195:18, 195:22, **EXAMINATION** [7] covering [2] - 91:20, 303:13, 303:25, 195:25, 196:19, correctly [8] - 159:15, 100:6, 194:20, 289:17 304:5, 306:16, 183:21, 220:10, 196:23, 197:10, 251:7, 321:25, covers [1] - 89:9 307:21, 307:22. 241:12, 256:2, 197:16, 197:24, 373:9, 427:18, COVINGTON [1] -307:24, 309:19, 263:7, 373:14, 197:25, 198:13, 448:12 2:10 309:20, 309:23, 401:24 202:21, 202:25, cross-examination [4] Crawford [1] - 440:3 313:8, 313:9, 315:3, correspond [2] -204:23, 207:16, - 20:11, 20:17, create [2] - 12:12, 315:7, 315:13, 207:18, 214:3, 171:20, 417:21 270:17, 343:17 55:18 319:18, 320:23, 214:15, 214:24, correspondence [1] cross-examine [1] created [1] - 403:10 321:13, 323:16,

ument 28-230 08/04/15 <del>31 of 17</del>2age 13 KIMP-2CI 343:8 161:13, 161:14, 446:21, 451:5, 326:20, 359:9, 226:2, 226:3 162:5, 162:6, 162:7, 451:6, 451:9, 359:11, 361:5, declarations [4] cross-examining [3] -270:7, 270:22 162:10, 166:10, 451:15, 451:23, 361:12, 363:15, 148:24, 149:17, crossed [1] - 115:9 187:24, 189:2, 452:2, 452:11, 364:7, 365:7, 149:18, 225:25 365:20, 366:5, CRR [2] - 1:23, 457:12 190:23, 190:25, 452:25, 453:5, decline [7] - 305:5, 191:2, 191:3, 453:6, 453:7, 366:11, 367:14, crunching [1] - 185:12 305:10, 333:25, 192:14, 192:18, 454:11, 454:14, 375:19, 414:11, 334:3, 335:13, **CRUTCHER** [1] - 3:20 192:19, 192:24, 454:23, 455:7, 414:16, 416:15, cubic [1] - 393:22 335:23, 336:10 193:7, 193:23, 455:19 416:21, 417:6, declined [5] - 305:1, current [5] - 150:17, 193:25, 208:14, date [10] - 40:4, 92:8, 417:15, 421:4, 341:19, 341:20, 228:4, 261:12, 209:13, 215:2, 106:25, 107:7, 426:10, 438:7, 341:21, 341:22 440:2, 440:7 223:14, 224:2, 438:16, 445:11, 107:11, 108:17, declining [2] - 305:14, curve [16] - 171:24, 224:4, 224:14, 302:14, 334:9, 447:23 172:1, 182:19, 334:2 225:8, 283:4, 284:5, 338:4, 456:6 **Dear** [1] - 333:17 182:20, 183:5, decrease [3] - 200:19, decades [2] - 151:25, 289:11, 289:16, dated [4] - 105:12, 253:1, 327:14 183:7, 352:14, 303:23, 314:12, 332:15, 333:17, 156:16 372:20, 372:21, deep [2] - 156:10 315:15, 316:17, 333:22 **December** [1] - 103:25 defendant [1] - 284:10 382:10, 382:12, 318:7, 318:12, dates [2] - 102:13, decide [7] - 28:8, defense [3] - 36:21, 403:5, 404:19, 320:9, 327:8, 102:19 40:24, 48:23, 69:17, 405:11, 405:20, 236:14, 384:6 327:12, 329:21, 409:20 **Dave** [15] - 59:7, 85:5, 201:9, 309:8 definitely [5] - 70:15, 337:13, 349:3, 59:12, 60:15, 61:1, decided [11] - 68:23, curves [4] - 198:10, 179:3, 183:3, 279:1, 349:7, 349:24, 94:19, 95:4, 119:2, 71:1, 118:4, 128:19, 225:4, 417:19, 445:4 443:12 350:1, 354:14, 122:11, 122:16, 190:17, 283:1, custody [1] - 18:14 deflate [12] - 11:12, 354:15, 354:18, 144:23, 145:2, 292:7, 318:12, custom [1] - 105:18 16:17, 40:8, 74:11, 358:20, 358:21, 145:6, 238:6, 252:20 318:13, 341:15, 75:5, 79:15, 93:25, cut [2] - 265:1, 369:23 361:4, 361:25, **DAVID** [1] - 3:11 452:6 94:5, 97:9, 273:24, **cycle** [1] - 383:12 362:7, 362:18, David [1] - 241:25 deciding [3] - 50:18, 274:18, 292:19 cycled [1] - 351:5 363:5, 367:2, 368:7, days [21] - 58:5, 317:10, 456:12 deflated [14] - 33:4, 370:18, 372:22, 59:13, 59:15, 59:16, decision [30] - 8:20, 35:9, 35:21, 121:3, D 378:23, 382:11, 122:5, 123:9, 133:5, 10:13, 14:10, 21:18, 121:8, 141:11, 382:25, 386:12, 133:13, 133:20, 55:10, 85:3, 154:23, **D'Qwell** [1] - 191:8 141:14, 144:9, 394:22, 403:17, 252:21, 261:24, 230:16, 237:22, D.C [2] - 2:21, 3:4 164:8, 164:9, 403:18, 404:5, 282:6, 282:7, 237:23, 244:8, 184:13, 276:2, 276:7 daily [1] - 83:14 404:6, 404:11, 286:25, 300:8, 303:24, 303:25, Deflategate [3] damp [2] - 407:21, 404:18, 413:16, 306:25, 316:4, 304:13, 304:16, 261:22, 267:2, 407:23 413:19, 413:20, 316:5, 316:6, 417:10 318:6, 319:22, 322:11 Dan [3] - 97:25, 413:21, 415:6, 324:10, 324:23, DC [1] - 3:22 deflating [5] - 85:17, 247:18, 439:11 415:11, 415:15, de [1] - 179:22 329:23, 335:23, 85:21, 90:1, 135:2 Daniel [3] - 191:11, 415:16, 417:3, 433:20, 433:23, deal [7] - 45:20, 98:10, 192:12, 439:23 deflation [31] - 34:4, 418:16, 419:7, 156:23, 269:7, 436:12, 436:17, 34:10, 100:18, **DANIEL** [3] - 2:22, 419:15, 419:18, 436:18, 452:1, 313:21, 314:7 100:24, 101:4, 4:14, 5:24 419:19, 419:25, 452:3, 453:18, dealing [3] - 192:6, 101:8, 103:16, Daniels [2] - 191:12, 420:2, 421:10, 456:20 262:10, 313:16 112:24, 113:5, 192:11 421:12, 421:13, dealings [1] - 75:17 decision-maker [1] -136:4, 140:6, 141:3, Darden [1] - 151:3 424:1, 424:6, 424:7, 433:23 deals [1] - 90:22 141:17, 142:14, dare [1] - 18:3 426:14, 428:18, decisions [6] - 27:19, dealt [3] - 14:9, 49:20, 143:3, 145:4, darn [1] - 303:20 429:3, 429:15, 245:7, 262:15, 153:14 145:10, 145:19, Darrel [1] - 258:19 431:22, 431:23, 304:19, 317:22, 155:7, 181:12, dean [10] - 153:25, Data [1] - 412:4 432:21, 433:14, 329:25 191:19, 210:8, 154:2. 154:3. data [173] - 151:13, 435:5, 435:10, deck [5] - 158:18, 243:2, 274:8, 154:12, 171:10, 151:14, 151:22, 435:13, 435:20, 197:20, 215:19, 194:1, 229:2, 276:15, 277:2, 151:24, 151:25, 435:23, 435:24, 222:2, 222:14 363:20, 418:15 277:5, 278:17, 152:6, 152:7, 435:25, 436:6, declaration [11] -Dean [40] - 15:23, 304:10, 306:7, 152:13, 152:24, 436:7, 436:14, 13:19, 14:8, 15:20, 332:20 16:1, 150:18, 153:2, 153:3, 436:15, 436:17, 39:5, 39:17, 40:2, deflator [3] - 135:9, 150:24, 151:3. 153:14, 153:20, 436:21, 436:24, 43:6, 107:1, 149:9, 136:4, 316:22 151:6, 151:8, 153:23, 157:14, 437:9, 438:17, 149:15, 149:16 160:13, 188:25, **Degree** [1] - 156:15 157:15, 158:3, 438:21, 438:25, **Declaration** [7] - 39:2, 190:19, 194:22, degree [9] - 7:22, 159:20, 159:25, 439:6, 441:18, 101:23, 106:23, 194:23, 207:9, 149:5, 194:23, 160:5, 160:22, 443:14, 443:17, 149:7, 225:24, 228:25, 290:19, 221:7, 317:16, 161:7, 161:8, 446:18, 446:20,

ument 28-230 <del>|**2 of 17</del>2</del>age 14</del>** 08/04/15 case 1:15-cv 317:18, 346:21, 349:13, 350:19, 252:14 173:13, 173:23, 10:11, 17:17, 27:13, 383:19, 412:9 353:10, 353:22, 175:9, 175:12, 49:3, 52:14, 52:17, determine [21] degrees [13] - 220:17, 175:17, 175:20, 354:5, 354:9, 112:23, 113:4, 52:18, 54:13, 54:16, 257:5, 291:1, 356:25, 358:10, 204:21, 205:2, 177:18, 177:21, 54:20, 56:4, 57:11, 352:23, 364:25, 359:11, 372:11, 205:23, 206:8, 177:22, 178:7, 68:12, 68:13, 69:21, 403:4, 403:9, 179:12, 179:13, 206:15, 206:21, 73:1, 77:8, 130:23, 365:4, 365:18, 405:14, 412:7, 179:14, 179:16, 153:21, 163:4, 365:25, 372:2, 212:18, 213:5, 166:10, 178:14, 412:12, 413:5, 179:21, 181:17, 372:3, 412:10 272:13, 311:11, 414:13, 441:12, 181:20, 186:2, 183:7, 189:16, delay [1] - 416:1 314:13, 327:7, delegating [1] - 28:5 442:4 327:13, 346:14, 186:3, 197:7, 194:12, 195:19, described [22] - 54:21, 349:2, 349:8, 197:23, 198:4, 196:6, 205:15, delegation [5] - 27:15, 108:20, 131:16, 349:21, 380:14, 198:5, 199:7, 214:18, 231:24, 27:21, 28:2, 28:21, 137:23, 187:7, 388:1 199:20, 200:6, 235:6, 244:7, 242:10 200:7, 200:18, 258:17, 289:13, 189:25, 193:4, determined [6] deliberate [2] - 10:13, 211:25, 216:5, 200:24, 201:25, 289:14, 289:18, 76:22, 200:21, 267:8 289:22, 303:17, 237:24, 255:12, 223:13, 328:8, 202:5, 203:7, deliberations [1] -259:19, 267:1, 354:24, 362:2 203:11, 203:21, 315:22, 317:5, 267:9 354:3, 359:12, 204:11, 204:13, 347:21, 352:25, determining [1] delivered [8] - 215:25, 205:4, 205:16, 353:1, 363:8, 367:12, 419:2, 373:22 216:7, 217:3, 206:10, 206:17, 367:10, 394:11, 419:3, 438:7, Detrimental [1] - 25:5 217:11, 217:23, 447:23, 448:4 207:18, 207:19, 394:15, 394:16, detrimental [21] - 9:7, 218:6, 218:10, 208:18, 213:22, 418:22, 455:14 describes [5] - 37:3, 9:24, 29:3, 29:4, 364:15 106:11, 253:20, 213:23, 215:5, differential [1] - 217:7 29:11, 29:17, 31:14, delta [2] - 328:1, 370:6 350:16, 359:16 215:11, 223:7, differently [5] - 82:18, 32:2, 32:8, 32:20, demand [1] - 305:21 describing [1] - 211:9 223:20, 224:9, 184:21, 211:9, 33:15, 35:25, 36:4, demonstrated [1] -225:14, 287:7, 285:2, 288:15 description [3] -431:20 36:12, 36:13, 38:15, 327:14, 327:19, difficult [2] - 193:20, 261:18, 367:16, 42:11, 42:19, 46:14, denial [1] - 40:16 327:25, 328:5, 445:13 326:16 445:5 denied [4] - 306:6, designated [1] -349:11, 350:10, **Diplomate** [1] - 457:13 developed [6] -326:2, 326:3, 326:7 354:22, 355:13, direct [18] - 40:7, 40:8, 441:13 166:14, 183:2, departed [1] - 308:3 355:25, 356:2, despite [11] - 96:17, 190:17, 328:19, 48:14, 101:21, Department [7] -356:10, 356:23, 104:10, 139:9, 159:6, 211:3, 328:21, 328:22 152:3, 280:10, 357:6, 357:15, 200:14, 274:20, 222:16, 262:17, developing [2] -280:14, 280:18, 358:9, 358:14, 264:20, 302:9, 153:4, 190:8 276:2, 297:16, 280:21, 281:16, 359:18, 362:21, 344:8, 361:15, 298:2, 353:7, development [2] -281:21 363:6, 363:7, 361:10, 402:22, 427:20, 446:6 442:14, 443:3 department [7] -367:17, 367:20, 402:25, 420:21, destination [1] develops [1] - 154:6 228:11, 347:11, 368:16, 380:9, 427:23, 453:15 413:14 deviation [3] - 405:6, 440:10, 440:12, 414:7, 414:18, destroy [7] - 87:9, **DIRECT** [7] - 47:9, 408:25, 421:8 440:14, 440:15, 415:8, 416:23, 91:6, 105:19, 150:12, 227:24, deviations [2] -440:16 418:25, 427:1, 261:7, 345:7, 105:20, 106:11, 404:22, 405:7 departure [1] - 413:13 427:2, 432:19, 411:22, 439:19 106:12, 108:8 device [2] - 105:20, **DePASO** [1] - 3:4 433:21, 435:7, Direct [2] - 5:14, 5:21 destroyed [8] - 39:21, 106:13 dependence [1] -435:11, 442:23, 88:5, 106:17, devices [2] - 102:5, directed [13] - 22:9, 172:7 445:18, 450:15, 106:18, 107:25, 22:10, 25:8, 46:15, 102:8 dependent [6] -453:16 108:2, 108:13, 337:1 57:20, 99:1, 99:2, Diego [1] - 412:15 169:16, 213:21, differences [28] -144:6, 198:12, **destroying** [1] - 87:8 differ [2] - 192:5, 215:4, 352:8, 357:4, 158:23, 160:14, destruction [2] -274:17, 274:25, 415:7 429:25 160:20, 163:19, 312:3, 334:25 106:4, 108:4 difference [138] - 13:9, depositions [2] -163:24, 167:12, directing [16] detail [4] - 291:9, 17:4, 54:19, 73:9, 434:7, 434:10 173:24, 179:16, 102:11, 102:17, 349:14, 444:8, 120:19, 157:19, derive [1] - 165:12 205:25, 215:7, 447:11 106:22, 111:7, 158:23, 158:24, derived [1] - 243:13 360:22, 363:7, 112:20, 129:10, details [4] - 33:21, 159:7, 160:19, describe [35] - 30:4, 367:17, 367:20, 133:21, 251:20, 212:3, 417:12, 163:10, 163:19, 80:1, 83:9, 163:15, 380:10, 387:8, 355:22, 356:14, 418:21 163:21, 164:20, 184:2, 186:18, 395:5, 396:6, detecting [1] - 435:14 356:24, 363:19, 164:24, 165:5, 200:8, 200:12, 413:17, 418:25, 373:2, 445:16, 166:15, 166:16, determination [3] -211:7, 211:8, 419:8, 422:6, 422:9, 446:3, 446:24 118:1, 118:22, 166:18, 167:12, 251:13, 251:15, 426:24, 427:6, direction [4] - 175:4, 290:12 169:20, 173:5, 264:8, 346:19, 450:22, 453:17 348:4, 422:1, 422:3 determinations [1] -173:6, 173:10, 347:3, 348:22, different [52] - 10:8,

ument 28-230 <del>.33 of 17</del>2age 15 08/04/15 TO-KMP-JCI rage directions [1] - 96:10 discussing [4] - 52:8, **DONALD** [1] - 4:5 **Doty's** [1] - 21:18 432:6, 454:22 directly [7] - 6:14, 145:18, 276:10, **Donald** [2] - 105:11, **double** [1] - 283:22 draft [3] - 267:25, 17:14, 38:20, 290:19 333:9 double-check [1] -269:16, 269:24 159:24, 209:11, discussion [16] - 35:1, done [120] - 15:16, 283:22 drafted [1] - 47:16 220:15, 313:22 39:7, 64:25, 66:18, drafter [1] - 269:23 16:10, 17:10, 19:21, doubt [9] - 32:12, director [1] - 347:10 81:22, 83:4, 110:9, 21:2, 29:13, 29:20, 107:12. 110:23. drafts [3] - 265:5, 127:10, 127:13, 32:7, 34:16, 34:17, Director [2] - 322:14, 265:15, 444:18 128:12, 131:15, 412:3 141:3, 312:10, 57:11, 69:13, 69:22, 132:14, 134:9, draw [10] - 38:22, dirk [1] - 156:14 334:9, 334:11, 71:5, 74:10, 77:23, 325:1, 325:10 44:12, 167:1, 167:4, 334:25, 364:4, 447:7 79:15, 85:11, 88:4, **DOUGLAS** [1] - 3:17 dirt [1] - 53:3 178:8, 182:4, discussions [5] -90:17, 91:23, 92:17, down [40] - 18:21, 190:14, 209:21, disagree [4] - 196:16, 13:23, 65:4, 279:24, 93:15, 95:14, 95:18, 210:4, 337:6 374:8, 387:24, 18:22, 53:11, 83:16, 287:21, 407:3 101:6, 105:20, 105:17, 117:23, 395:12 drawing [1] - 210:6 disagreed [1] - 433:11 dispersion [2] - 181:4, 106:7, 106:13, 127:4, 128:22, drawn [1] - 417:13 181:8 124:18, 128:5, 130:19, 132:6, disappeared [2] draws [3] - 222:14, dispose [1] - 88:8 129:6, 137:12, 161:20, 165:21, 361:13, 446:4 34:13, 293:17 137:17, 147:16, disposed [2] - 104:25, 169:14, 173:16, Drew [1] - 64:11 disapprove [2] -147:23, 149:19, 105:8 174:24, 205:20, 51:21, 116:20 drew [1] - 159:8 149:20, 149:22, discarded [1] - 108:7 dispute [7] - 23:2, 219:2, 231:19, dried [3] - 383:13, 31:16, 33:2, 33:6, 151:11, 151:17, 239:10, 241:23, 383:16, 383:19 disciplinary [1] -34:18, 37:4, 127:24 153:9, 154:8, 155:5, 263:22, 264:15, 154:21 drill [1] - 309:7 158:7, 158:12, 268:14, 289:3, disputed [2] - 27:8, discipline [30] - 7:23, driver [1] - 276:21 159:15, 162:19, 306:15, 306:17, 37:4 9:6, 9:7, 10:5, 14:11, drop [39] - 162:23, 194:6, 230:17, 309:7, 309:8, disqualified [1] -21:5, 23:24, 25:3, 163:4, 164:15, 231:21, 233:7, 329:13, 334:18, 280:25 25:5, 28:1, 29:5, 167:8, 167:20, 233:8, 237:6, 239:2, disrespectful [1] -336:5, 340:8, 351:1, 35:22, 37:12, 40:25, 174:24, 200:17, 243:4, 254:20, 369:24, 391:4, 454:5 41:2, 41:12, 42:12, 208:23, 213:22, 255:4, 258:3, 399:13, 409:24, distracted [3] - 142:5, 46:11, 242:4, 242:6, 287:8, 287:10, 264:23, 270:23, 411:10, 430:4, 142:13, 142:20 243:8, 243:15, 314:13, 314:23, 274:22, 275:1, 438:18 divide [1] - 390:9 243:16, 244:20, 354:20, 355:25, 275:2, 275:7, downpour [1] - 55:2 245:9, 250:14, **Division** [1] - 152:4 358:14, 367:23, 275:20, 276:1, dozen [1] - 196:14 division [1] - 153:7 326:15, 334:15, 368:17, 370:6, 277:1, 283:3, dozens [7] - 218:13, 341:25, 441:4 doctor [1] - 373:17 384:12, 388:2, 285:19, 291:15, 218:17, 218:18 disciplined [3] document [6] - 29:16, 388:3, 400:12, 291:16, 306:24, **Dr** [53] - 155:15, 24:12, 86:11, 245:14 402:9, 414:7, 415:7, 35:19, 101:24, 311:24, 317:1, 222:19, 227:17, disciplines [1] -102:12, 104:14, 416:23, 416:25, 322:8, 322:9, 281:17, 281:20, 346:12 418:1, 418:5, 420:1, 442:8 330:11, 331:7, 282:17, 282:20, discover [1] - 436:16 documentation [2] -420:3, 425:11, 338:19, 342:22, 283:5, 283:15, 425:14, 425:18, discovery [1] - 222:21 289:15, 417:12 344:13, 361:7, 285:4, 285:20, 427:5, 427:7, 434:22 discretion [3] - 32:1, documented [5] -363:16, 366:12, 286:10, 286:20, 33:10, 34:11, 34:24, dropped [2] - 163:12, 42:10, 317:21 371:17, 373:5, 286:25, 287:18, 223:21 discuss [11] - 50:21, 37:25. 38:3 374:17, 390:20, 287:22, 287:25, drops [29] - 157:20, 81:12, 140:6, documents [13] -391:8, 391:20, 290:19. 330:4. 158:24, 158:25, 141:10, 141:16, 29:23, 37:16, 39:8, 391:25, 392:2, 330:12, 330:14, 163:10, 163:16, 143:22, 144:1, 244:23, 244:24, 392:5, 395:8, 330:20, 330:22, 160:16, 212:7, 245:3, 299:21, 163:21, 166:18, 398:19, 399:6, 331:4, 342:9, 177:18, 197:7, 381:22, 443:17 304:15, 305:1, 399:25, 400:2, 342:13, 342:25, 197:23, 199:20, discussed [24] - 63:3, 332:3, 336:22, 400:4, 400:6, 400:7, 343:10, 343:19, 205:4, 206:1, 90:1, 92:10, 126:11, 339:12, 339:14 400:23, 415:3, 345:2, 345:13, 206:10, 221:12, 128:15, 130:9, dog [1] - 284:4 415:4, 416:13, 347:8, 347:13, 349:12, 350:11, 130:11, 132:2, dollar [2] - 453:3, 417:4, 417:6, 347:19, 347:23, 355:14, 356:23, 132:21, 142:8, 453:4 418:24, 424:8, 354:2, 371:14, 357:6, 357:11, 178:25, 182:25, dolphins [3] - 311:16, 424:15, 437:7, 373:13, 374:12, 357:16, 359:19, 211:21, 212:4, 311:20, 322:10 437:25, 441:10, 380:9, 380:19, 414:18, 419:9, 231:8, 291:9, Dolphins [2] - 262:11, 447:24, 448:8, 402:22, 412:7, 425:23, 432:20, 349:21, 354:13, 262:20 454:15, 456:4 413:11, 414:10, 445:18 354:16, 355:19, dome [1] - 76:18 door [2] - 229:17, 416:5, 425:2, drug [2] - 18:12 360:11, 419:11, domestic [1] - 46:3 309:1 425:20, 426:4, dry [32] - 168:25, 422:22, 450:1 **Don** [2] - 109:7, **Doty** [2] - 45:24, 46:5 426:6, 426:11, 171:7, 171:19, discusses [1] - 97:19 109:17

ument 28-230 08/04/15 <del>17</del>2age 16 case 1:15 Page 171:20, 171:21, 143:21, 144:16, easier [1] - 384:16 452:13, 452:24, 365:15, 389:13, 391:11, 406:2, 171:25, 179:5, 144:18, 145:12, eBay [1] - 379:15 453:5 effective [2] - 187:8, 180:17, 221:1, 155:8, 190:5, 191:8, Econometrics [1] -412:6, 415:24, 233:2, 233:3, 191:22, 230:12, 210:25 216:22 418:9, 423:23, 447:2 235:21, 237:3, 235:25, 238:2, effectively [1] - 424:17 eliminate [1] - 395:20 econometrics [2] -237:7, 289:9, 367:5, 245:22, 248:4, effects [14] - 159:1, eliminated [1] -201:21, 211:1 383:3, 383:4, 383:5, 251:10, 263:16, 350:6, 360:7, 361:4, 175:23 economics [3] -384:14, 384:15, 275:23, 288:2, 150:19, 152:17, 419:3, 423:9, **ELIZABETH** [1] - 2:23 384:16, 384:21, 319:16, 339:25, 152:18 423:14, 423:16, embodies [1] - 214:5 385:6, 385:10, 358:2, 359:8, 384:6, 423:18, 423:21, emphasis [1] - 440:18 Economics [1] -386:18, 387:6, 406:16, 407:2, 423:25, 424:4, 424:5 emphasized [3] -150:25 407:1, 407:5, 422:9 412:16, 414:11, efficient [1] - 270:25 economist [2] - 151:9, 41:19, 42:17, 164:1 dryer [7] - 168:19, 440:11, 442:1, effort [2] - 35:20, 152:19 emphasizing [2] -445:10, 450:2, 168:24, 178:17, economy [1] - 153:22 141:16 425:21, 426:8 382:15, 383:20, 450:13 efforts [6] - 75:5, ed [1] - 330:19 emphatic [2] - 293:4, duties [3] - 196:23, 386:8 93:25, 94:4, 113:25, edge [1] - 409:23 293:15 dryness [5] - 290:10, 276:14, 312:4 114:4, 407:1 empirical [3] - 151:12, editorialize [1] -360:22, 362:25, duty [3] - 86:17, Ehrlich [4] - 311:18, 448:18 415:10 367:4, 407:13 271:19, 323:6 educational [2] -312:12, 335:5, 335:7 employed [5] - 311:3, dynamic [1] - 428:4 **Duane** [3] - 347:8, Eight [1] - 220:1 345:13, 345:14, 346:20, 412:8 411:17, 412:1 eight [11] - 131:1, 412:2, 439:24 **EDWARD** [2] - 4:9, **DUANE** [2] - 4:15, Е 159:15, 183:21, **employee** [6] - 24:6, 5:16 5:23 185:18, 187:17, 156:16, 246:11, **Edward** [3] - 47:13, e-mail [28] - 14:10, **Dubin** [1] - 333:20 188:15, 215:21, 246:13, 250:3, 150:7, 150:16 39:12, 52:8, 90:20, **DUBIN** [2] - 4:3, 4:5 363:22, 364:24, EDWARDS [3] - 1:23, 259:24 109:7, 109:17, due [7] - 165:6, 365:15, 447:2 employees [2] - 123:8, 457:7, 457:12 144:20, 149:18, 290:13, 314:14, Eighth [2] - 2:11, 243:2 effect [76] - 35:15, 277:7, 277:8, 277:9, 334:10, 360:25, 21:19 168:20. 174:9. encounter [1] - 435:7 277:17, 280:13, 361:4, 456:6 **EISENSTEIN** [1] - 2:22 encourage [1] -175:4, 178:22, 281:11, 305:23, **Duffner** [5] - 156:14, either [34] - 26:15, 178:24, 179:8, 335:22 306:1, 332:5, 333:9, 156:19, 157:8, 180:19, 186:11, 27:25, 28:7, 35:2, end [35] - 35:15, 333:15, 333:16, 178:25, 182:25 38:8, 39:21, 41:13, 205:9, 211:14, 40:18, 42:17, 70:7, 333:20, 333:22, duly [7] - 47:6, 150:9, 91:12, 91:21, 111:9, 111:23, 212:16, 212:17, 334:23, 335:18, 227:21, 261:4, 115:25, 134:12, 213:3, 213:4, 216:5, 115:2, 115:22, 337:10, 338:7 345:4, 411:19, 186:6, 193:1, 193:9, 272:20, 352:16, 116:6, 118:9, e-mailed [1] - 281:2 439:16 234:8, 254:11, 353:24, 356:3, 164:10, 185:16, e-mails [36] - 14:15, **DUNN** [1] - 3:20 254:17, 265:18, 188:16, 192:25, 356:10, 357:8, 14:23, 14:24, 15:11, duration [1] - 206:4 280:18, 308:9, 357:10, 360:9, 193:6, 193:7, 39:8, 43:5, 61:20, during [83] - 23:12, 311:17, 320:17, 360:13, 360:16, 211:20, 211:24, 61:25, 62:12, 78:4, 23:18, 37:1, 39:14, 339:11, 355:15, 221:6, 226:17, 360:24, 361:1, 84:23, 85:14, 85:15, 48:1, 50:22, 51:4, 358:25, 370:24, 362:12, 362:15, 226:18, 234:7, 85:25, 86:9, 91:11, 51:5, 56:4, 57:6, 371:7, 395:19, 362:16, 362:24, 276:19, 298:20, 91:17, 91:18, 92:2, 57:13, 57:15, 57:20, 414:6, 415:25, 367:4, 370:11, 298:25, 299:3, 144:16, 305:21, 422:11, 428:5, 63:4, 63:5, 63:13, 370:12, 380:13, 318:16, 318:20, 305:24, 310:13, 65:3, 65:9, 71:22, 430:12, 439:8 395:6, 396:4, 321:20, 340:6, 310:15, 310:21, 72:11, 73:4, 73:7, elaborate [2] - 151:17, 365:9, 370:3, 400:13, 400:14, 311:3, 311:14, 73:12, 74:11, 75:15, 158:21 378:25, 398:10 405:24, 414:5, 313:7, 329:9, 81:7, 86:8, 93:2, 415:14, 417:23, elapse [1] - 418:12 ended [2] - 70:6, 332:18, 335:24, 103:7, 104:4, elapsed [1] - 438:19 421:11, 422:2, 284:23 339:12, 339:18, 104:17, 104:20, 422:8, 424:3, 424:4, **elected** [1] - 412:20 Ending [1] - 299:9 339:23, 340:2, 107:15, 107:18, 425:3, 425:4, **electronic** [3] - 84:19, endorsement [1] -341:11 110:4, 110:9, 425:12, 425:13, 109:7, 337:13 90:22 early [12] - 282:6, 113:19, 124:3, 425:22, 429:21, eleven [24] - 159:15, ends [1] - 291:2 286:25, 287:21, 126:11, 130:9, 430:13, 435:21, 160:1, 177:6, Enforcement [1] -409:21, 409:25, 131:3, 132:3, 436:13. 436:14. 183:22, 188:15, 99:9 410:1, 410:5, 410:6, 132:22. 133:2. 436:16, 438:13, 215:21, 220:1, enforcement [4] -413:15, 415:3, 133:8, 138:9, 443:8, 443:13, 222:24, 238:3, 151:21, 151:25, 434:21 138:11, 138:16, 446:15, 449:17, 238:9, 238:11, 152:6, 272:5 ears [1] - 283:22 139:15, 142:11, 449:21, 450:12, 239:11, 362:10, engage [1] - 36:12 earth [1] - 293:18 143:14, 143:18, 450:20, 451:3, 363:23, 364:24, engaged [17] - 29:3,

ument 28-230 <del>35 of 17</del>2age 17 08/04/15 case 1:15-c\ KIVID-JC age 29:11, 32:2, 38:15, equation [9] - 173:10, establish [3] - 183:12, 101:22, 148:24, examinations [1] -41:5, 42:10, 42:18, 149:6, 149:24, 321:9 201:16, 212:8, 184:24, 244:21 42:19, 42:23, 43:3, 370:21, 430:3, established [8] -150:2, 187:1, examine [4] - 101:13, 102:2, 274:7, 430:5, 430:7, 21:20, 26:23, 136:8, 197:19, 219:4, 101:16, 323:2, 343:8 326:16, 347:11, 430:10, 430:12 184:7, 242:24, 242:25, 247:1, examined [10] - 47:7, 347:17, 347:20 254:16, 255:2, equations [1] - 203:12 285:24, 308:4, 150:10, 153:14, 273:12, 274:17, engagements [1] equilibrate [2] - 171:6, 314:11 223:9, 227:22, 153:22 275:13, 275:16, 171:9 establishing [1] -261:5, 270:23, 276:2, 276:12, engaging [1] - 273:23 equilibrium [1] -220:8 345:5, 411:20, engineer [1] - 345:17 425:17 estimate [5] - 419:25, 285:18, 289:24, 439:17 293:3, 301:12, **Engineer** [1] - 347:15 420:2, 423:18, examiner [1] - 112:5 **Equipment** [1] - 26:6 316:19, 316:20, examining [3] - 270:7, 424:5, 436:19 engineering [8] equipment [17] -317:9, 317:12, **estimated** [1] - 307:12 327:11, 345:19, 22:25, 24:10, 24:18, 270:22 324:17, 325:5, 345:21, 346:4, 25:11, 26:22, 53:24, estimates [4] - 214:14, example [7] - 22:16, 325:11, 366:21, 346:7, 346:10, 59:6, 60:15, 69:4, 423:11, 423:14, 23:9, 120:3, 196:7, 367:7, 369:3, 346:12, 346:22 72:3, 117:7, 123:7, 423:20 275:15, 419:16, 369:12, 370:1, Engineering [1] -140:3, 147:5, 250:4, et [1] - 250:23 424:10 385:4, 420:23, 346:23 283:11, 401:9 ethical [2] - 271:19, examples [1] - 245:14 426:8, 434:3, equivalent [5] - 9:10, engineering-based 271:21 exceed [1] - 225:3 434:12, 434:16, [1] - 327:11 372:13, 372:22, ethics [1] - 323:12 exceeded [1] - 168:9 435:6, 437:11, 447:8 engineers [1] - 283:10 376:5, 442:17 evaluate [8] - 155:6, exceeds [2] - 160:23, equivocation [1] exacerbated [1] -**ENGLAND** [1] - 2:23 158:14, 166:15, 161:1 14:13 England [4] - 47:19, 25:9 176:21, 190:13, except [9] - 12:11, exact [8] - 17:7, 17:8, erratic [1] - 316:4 61:16, 82:8, 300:9 327:16, 339:6, 350:6 21:2, 30:10, 88:3, 46:13, 58:17, 235:6, error [23] - 159:11, evaluated [6] - 154:20, **English** [1] - 452:22 175:16, 269:6, 274:10, 319:7, enjoyed [1] - 152:20 176:2, 186:10, 186:23, 338:17, 310:19, 371:2, 415:20 186:17, 191:25, 350:17, 386:11 405:17 ensure [2] - 37:22, exactly [31] - 14:25, 192:6, 203:19, evaluating [4] - 157:4, exceptionally [1] -190:12 15:4, 17:10, 18:15, 203:20, 213:25, entailed [1] - 154:2 157:10, 211:20, 437:4 22:21, 30:25, 372:8, 372:14, 433:14 exceptions [1] enter [1] - 251:18 100:12, 100:25, 404:16, 405:8, evaluator [1] - 158:2 293:25 entered [1] - 113:19 115:14, 118:17, 405:9, 409:17, exchange [1] - 127:5 **Evans** [1] - 440:3 entertain [2] - 183:19, 120:1, 126:13, 409:23, 410:2, evening [2] - 130:20, exchanged [5] -188:2 130:11, 132:4, 423:1, 426:9, entire [9] - 197:2, 373:11 111:2, 125:6, 132:23, 134:14, 426:11, 427:7, event [4] - 121:13, 140:19, 144:16, 201:2, 286:2, 149:21, 178:20, 436:20, 436:21 144:18 287:21, 358:16, 221:9, 258:3, 452:9 207:14, 210:5, errors [4] - 157:3, events [14] - 74:7, exchanges [4] -397:18, 407:6, 221:2, 223:18, 157:23, 158:14, 111:11, 111:25, 429:7, 437:9 160:7, 168:2, 168:3, 225:11, 296:4, 185:20 168:6, 176:12, 145:12, 153:20 entirely [3] - 45:8, 376:10, 381:6, especially [6] -221:11, 264:16 176:19, 177:11, exclude [1] - 207:3 381:23, 399:21, 169:18, 321:19, 187:21, 206:5, excluded [4] - 204:14, entities [1] - 322:22 417:14, 421:25, 386:22, 435:16, 253:17, 358:1, entitled [3] - 15:10, 210:20, 356:12, 438:12 438:9, 444:5 359:5, 406:18 434:16 31:2, 31:3 examination [8] -ESPN [3] - 135:9, excluding [1] - 202:18 eventually [1] - 61:5 entity [1] - 330:18 20:11, 20:17, 136:5, 316:23 entrance [2] - 251:19, evidence [91] - 8:1, excuse [4] - 37:8, 226:21, 270:17, **ESQ** [21] - 2:5, 2:6, 8:9, 8:12, 10:21, 185:7, 193:7, 202:9 307:18 343:17, 349:24, 2:12, 2:16, 2:22, 11:20, 12:7, 13:22, execute [2] - 183:20, entry [1] - 130:2 379:5. 453:15 2:22, 2:23, 2:23, 3:4, 17:1, 20:18, 22:10, 185:5 environment [5] -**EXAMINATION** [23] -3:5, 3:11, 3:11, 3:12, 28:24, 30:1, 30:4, execution [1] - 444:9 169:10, 169:11, 47:9, 100:6, 139:4, 3:12, 3:17, 3:17, 30:8, 30:9, 31:25, **Executive** [10] - 2:6, 169:12, 192:7, 143:12, 150:12, 3:18, 3:22, 4:5, 4:5, 32:9, 32:17, 32:18, 228:6, 262:25, 391:14 194:20, 227:24, 4:10 32:21, 32:25, 33:1, 263:9, 263:15, environmental [9] -251:7, 255:9, essential [1] - 19:7 33:7, 34:10, 34:22, 264:8, 273:6, 206:2, 327:17, 259:15, 261:7, essentially [13] - 8:23, 35:5, 36:23, 37:3, 300:22, 322:14, 346:5, 349:10, 321:25, 340:19, 87:4, 146:5, 147:3, 37:14, 37:15, 38:5, 326:23 352:4, 358:3, 358:8, 345:7, 373:9, 147:7, 147:25, 38:16, 38:25, 40:11, **executive** [1] - 246:7 388:7, 405:24 402:20, 408:4, 149:10, 149:12, 40:18, 40:25, 41:21, **executives** [1] - 99:7 environments [1] -411:22, 427:18, 416:4, 425:3, 41:23, 41:24, 42:2, 83:13 exemplar [4] - 355:6, 438:3, 439:19, 426:16, 442:17, 42:5, 42:6, 42:7, equal [1] - 420:15 377:16, 378:16, 448:12, 454:20 446:19 46:23, 98:1, 98:7, 379:2 equally [1] - 368:6

ument 28-230 <del>36 of 17</del>2age 18 06/04/15 exemplars [1] -280:2, 280:7, 281:4, 399:12, 441:2 38:1, 421:8, 448:16 286:17, 287:24, explanatory [4] -288:20, 291:20, 291:8, 300:20, 301:20 experimental [11] -173:12, 173:14, 301:8, 302:6, exemplary [2] - 20:24, 208:16, 209:23, 329:2, 329:17, 338:19 347:18, 358:11, 348:12 201:13, 213:19 302:25, 303:9, 358:13, 367:2, explain [68] - 11:24, explicitly [1] - 212:15 315:5, 326:19, exercise [2] - 292:25, 326:22, 327:2, 12:5, 16:7, 16:11, 453:16 432:3, 440:20, explore [1] - 188:3 327:6, 327:10, 448:19, 448:24, 17:1, 34:4, 43:7, exhibit [7] - 97:14, explored [1] - 179:4 449:2 48:19, 48:22, 48:25, exploring [1] - 415:10 329:12, 330:12, 98:9, 104:11, experimentally [3] -330:23, 331:4, 200:17, 238:24, 75:10, 77:6, 78:24, exponent [186] - 16:9, 298:15, 333:7 347:16, 422:4, 79:25, 87:23, 342:5, 342:8, 20:13, 33:23, 155:6, 431:20 120:22, 149:18, 342:11, 342:24, Exhibit [32] - 24:4, 156:16, 156:21, 343:4, 343:8, 157:16, 159:20, experimentally-62:3, 64:19, 78:6, 158:10, 158:25, 343:16, 345:14, oriented [1] - 347:16 164:16, 166:5, 97:18, 98:8, 101:22, 159:3, 159:14, 345:20, 345:21, 174:16, 184:16, 104:7, 105:10, experimentation [6] -159:23, 159:24, 346:25, 347:24, 199:7, 202:14, 106:23, 111:5, 413:23, 415:4, 160:21, 161:2, 348:9, 349:15, 156:18, 197:19, 415:13, 417:3, 203:7, 203:20, 161:6, 162:3, 427:8, 443:15 205:3, 205:8, 205:9, 350:17, 359:13, 237:17, 242:6, 162:14, 162:16, 205:14, 205:25, 361:8, 361:12, 248:2, 249:15, experiments [46] -162:25, 163:2, 363:17, 366:13, 206:10, 206:17, 252:12, 253:13, 197:9, 197:13, 163:16, 164:2, 366:16, 367:18, 206:23, 206:24, 254:5, 255:12, 201:5, 202:4, 164:25, 165:4, 207:5, 210:23, 367:21, 368:2, 258:15, 298:3, 204:16, 204:17, 169:4, 169:6, 370:21, 371:17, 300:21, 331:18, 204:20, 205:2, 213:17, 213:21, 169:21, 170:25, 214:1, 214:17, 371:18, 373:5, 331:19, 333:6, 205:22, 205:23, 172:3, 172:15, 222:10, 288:5, 373:6, 402:23, 333:11, 335:10, 206:8, 206:21, 172:20, 173:5, 412:4, 412:5, 413:1, 324:3, 327:2, 337:4, 359:15 209:12, 209:14, 173:15, 174:15, 356:22, 357:5, 413:7, 414:14, exhibited [6] - 167:8, 224:16, 225:10, 175:25, 177:9, 373:23, 388:2, 416:13, 416:14, 167:20, 208:23, 328:4, 328:11, 177:18, 178:13, 388:3, 388:21, 422:12, 427:12, 327:14, 339:25, 349:9, 350:6, 180:23, 181:14, 352:18, 353:6, 389:11, 389:24, 182:15, 182:21, 427:13, 432:22, 354:20 390:21, 392:18, 433:16, 441:11, exhibits [2] - 97:25, 353:23, 357:1, 183:12, 184:3, 392:20, 397:14, 441:24, 442:7, 357:2, 357:8, 358:6, 184:16, 185:14, 98:6 442:14, 443:4, 401:4, 404:16, exist [5] - 43:9, 317:2, 358:15, 358:18, 186:11, 187:1, 443:14, 443:22, 408:21, 420:9, 320:20, 321:13 358:19, 358:22, 191:3, 192:9, 436:11, 439:8, 444:2, 444:12, 360:6, 360:17, 192:18, 193:8, existed [4] - 15:1, 453:24, 454:3, 454:7 444:23, 445:25, 363:5, 365:5, 193:22, 194:3, 149:23, 293:17, explainable [1] -446:4, 446:19, 366:19, 367:6, 195:17, 195:24, 435:11 409:14 447:25, 448:9, 382:24, 388:5, 197:2, 197:8, exists [1] - 15:2 448:22, 454:13, explained [17] -415:14, 438:12, 198:24, 199:1, expect [3] - 215:1, 455:17 175:17, 179:14, 439:4, 441:10, 199:20, 200:8. 441:19, 449:18 Exponent [7] - 164:13, 212:19, 213:7, 443:3, 444:1, 444:6 200:12, 200:14, expectation [1] experiments' [1] -262:7, 268:6, 201:2, 201:7, 203:8, 187:18, 212:15, 108:11 300:17, 328:9, 346:3, 366:12, 454:12 204:25, 205:12, expected [13] - 169:9, 338:9, 338:11, 441:14, 448:8 205:20, 207:10, expert [25] - 33:17, 215:14, 215:22, exponent's [28] -388:13, 389:5, 208:10, 208:11, 33:20, 33:24, 39:16, 220:2, 225:3, 157:10, 160:13, 390:6, 394:21, 208:12, 208:13, 102:1, 102:24, 360:24, 363:23, 405:24, 408:13, 161:11, 166:4, 104:21, 107:14, 208:17, 208:21, 364:24, 365:10, 166:7, 166:14, 409:11 209:10, 209:20, 148:25, 153:6, 365:11, 365:16, explaining [3] -211:4, 211:7, 167:11, 169:22, 201:20, 283:2, 447:2 169:19, 409:8, 428:1 174:13, 175:6, 211:13, 215:13, 284:1, 284:3, expensive [1] - 77:19 175:16, 182:8, explains [4] - 212:3, 218:14, 218:22, 284:11, 286:13, experience [12] -183:21, 183:25, 222:9, 416:22, 219:7, 220:24, 286:15, 291:8, 77:18, 115:16, 185:20, 187:7, 428:17 222:4, 222:14, 317:15, 317:17, 118:18, 120:10, 188:6, 190:20, explanation [13] -222:19, 279:23, 348:17, 448:19 149:11, 151:16, 279:25, 281:5, 197:22, 215:22, expertise [7] - 16:3, 33:15, 39:22, 156:8, 165:7, 182:3, 220:9, 285:13, 182:10, 222:22, 281:6, 281:13, 156:11, 286:21, 236:11, 236:19, 342:21, 359:17, 241:16, 241:22, 281:15, 281:19, 434:17 346:9, 346:18, 363:23, 414:17, 305:9, 370:6, 282:3, 282:15, 347:4, 440:19 experiment [8] -445:17, 447:2 391:21, 404:13, 283:2, 283:6, experts [14] - 15:24, 205:13, 353:12, Exponent's [4] -421:6, 436:5, 455:13 283:17, 284:17, 33:8, 33:12, 33:23, 367:1, 388:1, explanations [3] -285:4, 285:19, 159:21, 220:2, 270:22, 279:24, 396:20, 399:11, 364:24, 432:24

ument 28-230 <del>7 of 17</del>2age 19 exposed [1] - 55:6 331:24, 335:3, 36:25, 37:8, 38:21, featured [1] - 205:16 18:18, 144:11, 38:22, 38:23 144:12, 169:24, 337:11, 374:1, express [6] - 57:6, February [14] - 84:20, 174:15, 202:10. fair [46] - 26:24, 27:3, 291:19, 291:22, 374:23, 375:24, 99:6, 103:25, 291:24, 299:23, 375:25, 378:1, 41:3, 41:13, 42:12, 109:13, 111:1, 209:3, 241:23, 301:7 382:14, 384:5, 45:17, 57:14, 57:17, 111:11, 111:25, 328:4, 328:9, 385:1, 423:3, 328:19, 346:16, 116:4, 118:10, expressed [1] - 452:4 112:4, 140:19, 424:20, 426:10, 397:14, 403:6, 119:18, 140:2, 313:8, 332:15, **expressing** [1] - 79:4 433:15, 434:5, 403:16 196:13, 204:9, expressly [2] - 215:13, 333:12, 333:19, Figure [16] - 169:23. 409:17 434:11 204:11. 207:6. 337:13 fact-finding [4] -221:7, 221:8, 222:7, federal [1] - 282:21 172:18, 198:9, extensive [8] - 49:8, 27:24, 28:6, 28:22, 223:12, 223:18, 204:18, 223:10, feel-oriented [1] -51:24, 53:23, 69:6, 29:7 227:4, 228:16, 353:10, 353:14, 49:24 76:12, 415:4, 228:17, 234:23, 382:23, 387:7, factor [26] - 50:17, feelings [1] - 57:6 417:11, 427:8 236:16, 236:18, 397:4, 397:7, 397:9, 169:19, 207:11, extent [9] - 40:24, FELD [1] - 2:19 236:24, 241:9, 397:25, 403:22, 157:20, 265:9, 222:22, 223:9, fell [2] - 88:14, 352:5 263:3, 269:25, 405:17, 445:4 243:22, 350:3, 265:24, 268:5, fellow [1] - 412:20 350:25, 364:23, 270:15, 271:21, figured [4] - 128:20, 268:10, 366:16, felony [1] - 151:23 369:17, 369:21, 273:18, 275:11, 314:24, 314:25, 404:10, 441:4 felt [34] - 10:18, 12:16, 369:22, 369:23, 284:18, 284:20, 423:12 external [5] - 353:25, 12:17, 13:8, 23:22, 285:12, 288:3, 370:14, 372:8, figures [5] - 160:16, 393:8, 394:4, 394:5, 52:12, 55:22, 56:19, 373:22, 374:2, 323:13, 374:2, 163:2. 241:24. 394:12 57:3, 57:4, 57:10, extra [2] - 46:25, 210:8 374:4, 381:12, 421:4, 455:5, 398:13, 403:1 57:12, 58:1, 58:25, 381:16, 415:8, 455:15, 455:21 file [1] - 246:6 extremes [1] - 386:10 59:3, 62:24, 63:9, fairer [3] - 200:8, 427:22, 427:23, filed [1] - 6:12 68:11, 71:2, 71:10, eye [1] - 11:17 428:9, 429:24, 200:12, 206:13 files [1] - 149:20 72:15, 72:16, 72:22, eyes [1] - 283:22 450:21 fairly [1] - 287:20 film [1] - 128:17 93:2, 120:6, 121:6, factors [34] - 16:19, fairness [4] - 27:7, final [8] - 67:12, 184:7, F 134:20, 252:22, 17:14, 34:4, 48:24, 27:9, 27:11, 46:24 257:15, 316:12, 188:25, 252:14, 68:10, 176:3, faith [1] - 366:9 face [6] - 22:13, 82:23, 265:6, 314:9, 316:18, 317:7, 190:10, 206:2, fall [2] - 79:3, 365:16 413:14, 429:12 123:4, 139:25, 340:12, 391:7 238:16, 253:1, fallen [1] - 378:9 293:17, 339:1 few [22] - 24:2, 42:16, finally [8] - 21:6, 290:11, 315:6, faced [1] - 187:23 falls [3] - 179:21, 88:13, 90:10, 91:10, 27:14. 41:3. 45:19. 327:17, 328:10, 282:12, 389:23 258:14, 315:4, faces [1] - 82:14 91:13, 91:23, 91:24, 349:10, 350:17, familiar [12] - 66:11, 342:4, 423:12 facilitate [1] - 262:9 92:21, 121:1, 139:2, 351:23, 352:3, 83:7, 230:21, Finally [1] - 335:22 188:25, 216:10, facility [1] - 11:22 352:4, 356:1, 356:9, 230:24, 230:25, 251:9, 252:21, finances [1] - 154:7 facing [1] - 130:14 356:12, 356:17, fact [71] - 11:24, 12:6, 231:1, 252:25, 253:8, 255:8, 282:7, financial [1] - 153:20 356:19, 358:4, 330:2, 384:5, 434:5, 322:4, 331:13, finder [6] - 301:11, 16:22, 22:12, 23:17, 358:8, 360:20, 434:11 340:18, 417:10 303:4, 303:12, 24:12, 24:21, 27:5, 360:21, 362:9, family [1] - 90:23 324:3, 326:13, fiancé [6] - 62:17, 27:24, 28:6, 28:22, 362:22, 362:23, fan [1] - 384:3 62:18, 277:19, 329:22 29:7, 29:12, 30:3, 366:8, 388:7, 428:2 far [10] - 31:9, 32:5, 278:7, 278:9, 278:11 findings [26] - 10:8, 39:14, 39:16, 41:4, facts [17] - 10:18, 39:1, 39:11, 78:21, field [33] - 50:14, 51:3, 10:17, 158:4, 66:15, 79:2, 89:3, 19:25, 28:9, 30:24, 101:11, 189:12, 52:1, 52:3, 55:24, 158:13, 158:15, 108:13, 114:20, 41:17, 267:12, 195:7, 275:12, 57:23, 59:23, 72:6, 158:19, 158:20, 116:19, 121:3, 290:2, 323:2, 323:4, 448:14 72:7, 137:7, 170:7, 165:12, 186:11, 139:24, 143:22, 323:10, 324:7, Farenheit [2] - 365:25, 170:12, 170:21, 188:4, 194:13, 169:1, 182:8, 375:22, 402:8, 207:20, 269:18, 366:1 220:17, 220:23, 212:15, 233:20, 404:17, 404:18 Farley [6] - 299:20, 291:1, 307:14, 273:7, 286:6, 238:21, 240:4, factual [2] - 8:19, 299:21, 306:15, 307:20, 308:5, 326:14, 330:17, 251:2, 255:14, 456:16 259:7, 259:8, 306:17, 306:19, 309:3, 314:23, 331:1, 359:12, faculty [1] - 154:16 307:2 352:25, 365:24, 406:5, 414:13, 276:17, 281:21, Fahrenheit [1] farley [1] - 306:25 372:3, 372:23, 424:21, 435:15, 290:16, 300:16, 352:23 384:6, 384:17, 435:18, 445:14, 301:8, 301:11, fashion [3] - 269:17, failed [4] - 207:10, 384:22, 385:11, 447:22 302:9. 303:5. 327:23, 338:21 331:6, 358:13, 385:14, 394:8, Fine [1] - 322:17 303:12, 306:18, fat [2] - 12:17, 63:9 372:12 455:10 308:6, 308:16, fault [2] - 16:8, 16:9 fine [12] - 26:11, failing [2] - 37:11, fifteen [1] - 423:22 26:19, 45:13, 45:15, 315:9, 320:7, favorable [1] - 191:18 448:15 320:10, 324:3, Figueroa [1] - 4:4 Favre [2] - 44:23, 45:9 72:16, 213:15, failure [6] - 14:14, 326:13, 329:22, figure [16] - 16:25, 219:8, 242:19, **FDA**[1] - 165:15

ument 28-230 <del>38 of 17</del>2age 20 case 1:15-cv 06/04/15 267:21, 284:16, 265:3, 269:23, flexible [2] - 227:6, 261:6, 280:3, 287:4, 141:11, 141:14, 141:17, 143:18, 269:24, 272:2, 345:6, 411:21, 343:13, 343:14 321:23 fined [2] - 45:1, 45:3 272:17, 281:9, flip [2] - 50:1, 176:21 439:18 143:24, 144:7, fining [1] - 45:10 282:7, 282:8, 287:5, flipped [1] - 224:9 food [1] - 148:12 147:8, 147:17, 287:16, 290:20, FOOTBALL [6] - 1:1, 167:9, 167:21, finish [12] - 202:2, flipping [1] - 221:23 192:2, 200:20, 303:14, 308:11, 246:8, 294:16, 2:3, 2:15, 2:20, 3:3, flowed [1] - 296:20 322:5, 327:23, 208:24, 220:23, 383:13, 385:25, 3:9 flowing [1] - 393:11 328:6, 329:3, 330:5, 220:25, 222:24, 386:4, 391:9, fluctuations [4] football [64] - 12:1, 331:24, 337:21, 228:19, 229:12, 391:19, 402:12, 35:10, 40:9, 49:9, 224:20, 225:1, 230:23, 231:9, 402:17, 409:7, 454:1 341:19, 343:1, 54:5, 56:4, 56:19, 363:4, 432:21 345:4, 350:20, 231:25, 234:7, Finish [1] - 246:10 57:23, 58:1, 116:8, focus [22] - 6:22, 350:24, 352:24, 234:15, 243:3, 116:10, 116:18, finishing [2] - 183:4, 73:25, 74:1, 74:7, 354:13, 359:16, 245:24, 246:3, 116:24, 120:11, 401:14 141:20, 142:8, 380:23, 380:25, 248:21, 249:21, fired [2] - 57:14, 151:7, 151:15, 120:15, 120:25, 381:1, 381:5, 121:6, 121:7, 133:2, 250:17, 254:20, 154:19 162:7, 169:3, 170:4, 381:15, 389:10, 255:15, 257:10, 133:3, 169:10, firm [13] - 155:6, 171:19, 174:3, 389:14, 389:17, 172:9, 172:10, 263:16, 273:24, 156:17, 195:15, 174:4, 182:14, 396:21, 397:20, 282:11, 288:2, 172:13, 199:25, 195:17, 261:13, 197:18, 205:1, 399:5, 401:7, 327:10, 327:15, 212:9, 225:2, 263:13, 268:7, 205:22, 206:20, 403:16, 406:21, 327:20, 349:4, 228:13, 231:17, 271:9, 281:25, 215:18, 346:10, 406:23, 408:9, 351:12, 351:18, 236:1, 246:12, 283:8, 284:19, 346:11 408:17, 411:19, 351:20, 352:10, 248:8, 248:19, 347:14 focused [13] - 48:5, 414:25, 418:12, 251:16, 254:2, 353:3, 356:21, firms [1] - 195:20 134:17, 141:22, 421:2, 421:17, 357:4, 363:8, 372:2, 254:13, 254:18, first [145] - 8:8, 10:23, 141:25, 142:19, 421:19, 423:5, 254:24, 256:15, 394:18, 421:20, 13:9, 14:16, 18:9, 156:25, 158:1, 424:23, 438:22, 443:11 256:19, 257:18, 21:11, 22:2, 23:14, 160:5, 200:5, footnote [8] - 211:19, 439:16, 444:9, 257:20, 259:21, 26:11, 26:13, 26:20, 290:21, 291:3, 445:16, 446:12, 212:5, 212:6, 260:2, 328:12, 29:2, 29:6, 33:20, 291:8, 291:10 449:7 351:4, 351:5, 212:14, 212:23, 34:18, 37:19, 39:7, focuses [3] - 155:5, first-class [2] - 281:9, 351:10, 351:22, 300:17, 318:9, 42:16, 47:1, 47:6, 157:19, 198:1 430:14 444:9 352:11, 353:12, 48:18, 52:16, 57:7, focusing [2] - 52:9, first-half [1] - 182:13 Footnote [5] - 212:14, 353:15, 354:1, 57:25, 58:15, 69:19, 166:8 fit [1] - 387:6 384:3, 384:20, 360:11, 430:23, 73:1, 73:10, 73:21, folders [1] - 90:21 393:7, 393:11, 431:17, 431:18 five [27] - 42:14, 74:8, 76:7, 79:25, follow [10] - 6:18, 55:13, 131:2, 134:6, 393:15, 393:23, footwear [1] - 83:6 87:1, 87:16, 98:10, 158:12, 238:8, 149:2, 165:2, 394:2, 394:11, forces [2] - 290:14, 102:12, 105:16, 247:14, 259:17, 166:20, 181:21, 396:2, 397:22 314:14 118:20, 126:17, 268:2, 268:3, 305:8, 194:17, 343:20, Football [9] - 1:14, Foreign [1] - 26:3 127:22, 128:10, 360:4, 443:18 344:25, 354:17, 24:13, 24:22, 25:1, forensic [10] - 14:9, 128:25, 131:1, follow-up [3] - 238:8, 386:8, 395:22, 228:6, 228:7, 228:9, 15:20, 101:15, 138:20, 139:19, 247:14, 443:18 401:13, 402:17, 249:25, 257:21 101:17, 102:1, 150:9, 151:20, followed [4] - 106:17, 418:11, 419:21, footballs [104] - 11:12, 102:24, 103:4, 158:18, 158:22, 126:18, 337:11, 420:7, 420:18, 11:23, 11:25, 12:3, 104:21, 107:14, 159:18, 160:9, 431:5 432:12, 432:14, 23:12, 23:18, 33:3, 112:5 163:23, 168:4, following [27] - 15:7, 432:17, 432:23, 33:5, 34:10, 34:20, 168:15, 170:16, forensically [1] -28:25, 37:18, 45:6, 35:3, 35:14, 35:21, 433:12, 433:15, 149:22 176:14, 176:20, 59:14, 74:13, 74:14, 451:4 48:20, 50:25, 51:7, 179:15, 182:13, forensics [2] - 101:12 99:5, 103:15, 106:6, five-minute [1] -51:14, 51:19, 52:12, 190:6, 191:9, forget [7] - 287:2, 108:15, 108:20, 343:20 55:12, 60:9, 64:7, 292:13, 293:16, 191:19, 197:18, 124:25, 129:15, 64:21, 65:4, 65:5, five-percent [3] -199:5, 199:9, 318:10, 320:11, 156:21, 167:7, 165:2, 432:17, 451:4 67:15, 68:24, 69:21, 199:10, 201:3, 442:24, 453:9 224:17, 237:16, 75:6, 76:13, 77:3, fixed [2] - 19:10, 366:6 201:12, 201:24, form [5] - 243:11, 248:1, 252:18, flat [3] - 53:15, 182:18, 79:16, 85:21, 90:1, 202:9, 224:20, 331:9, 381:4, 266:9, 273:11, 94:1, 96:13, 97:9, 182:20 224:25, 227:21, 429:12, 442:4 330:12, 340:25, 103:17, 112:25, 229:10, 229:11, flattens [1] - 183:5 formal [1] - 6:7 376:14, 408:3, 113:5, 113:11, 229:14, 229:22, flaw [1] - 370:20 former [5] - 152:2, 418:19 113:14, 114:8, 230:24, 239:3, flawed [2] - 203:25, 156:15, 236:9, follows [13] - 16:14, 115:13, 116:5, 242:22, 253:9, 331:6 245:17, 322:13 47:8, 150:11, 133:6, 134:18, 253:15, 255:25, flaws [1] - 438:15 Formula [2] - 184:2, 171:24, 171:25, 135:1, 135:2, 140:6, 261:4, 263:9, 264:7, flexibility [1] - 226:18 184:4 203:24, 227:23,

ument 28-230 <del>9 of 17</del>2age 21 08/04/15 TO-KMP-3CI formula [7] - 153:18, freezes [2] - 447:19, 57:13, 57:15, 57:20, 233:22, 234:5, 409:21, 414:3, 58:2, 58:6, 58:7, 234:7, 234:11, 414:6, 424:22, 185:11, 188:16, 447:21 219:21, 219:23, freezing [1] - 23:22 58:11, 59:14, 61:13, 234:13, 234:18, 425:19, 427:3. 288:11, 364:20 frequently [5] -62:10, 62:14, 62:19, 235:25, 237:25, 443:4, 444:2, 447:1, forth [17] - 54:7, 63:4, 63:5, 63:14, 238:1, 238:3, 451:6, 451:9, 195:21, 195:24, 238:21, 239:19, 451:15, 452:2, 67:3, 67:4, 67:9, 90:23, 239:21, 407:12, 407:14, 454:23, 455:7, 265:2. 303:7. 68:20, 68:24, 69:2, 240:12, 241:5, 441:23 455:18 69:5, 70:4, 70:10, 246:11, 246:12, 332:14, 332:19, freshman [1] - 423:2 70:11, 71:13, 71:22, 246:17, 246:20, 337:12, 341:1, Friday [4] - 68:21, Game [47] - 18:6, 341:4, 344:1, 71:23, 72:9, 72:10, 247:6, 248:4, 24:24, 25:7, 33:3, 133:15, 146:4, 147:1 355:10, 371:22, 72:11, 72:19, 73:2, 248:22, 249:4, 37:19, 41:7, 66:22, front [16] - 6:25, 73:4, 73:7, 73:12, 249:5, 249:7, 67:13, 68:16, 68:17, 437:12, 444:16, 98:19, 101:24, 73:15, 74:1, 74:8, 249:13, 250:5, 68:19, 69:20, 78:10, 444:23, 450:8 124:12, 124:14, 74:9, 74:11, 76:2, 252:2, 252:4, 252:5, 85:23, 94:17, 96:12, forthcoming [1] -222:13, 262:1, 76:20, 77:11, 77:14, 253:18, 253:22, 99:9, 103:12, 338:23 262:24, 305:11, 254:18, 254:19, forward [3] - 6:14, 80:19, 82:9, 82:10, 103:15, 103:20, 321:8, 336:12, 92:10, 93:2, 93:17, 257:4, 257:8, 121:2, 123:1, 124:8, 119:13, 190:12 340:6, 350:13, 257:14, 257:17, 93:23, 93:24, 94:2, 124:25, 125:2, forwards [1] - 173:15 360:2, 361:22, 94:5, 94:6, 113:18, 257:23, 259:23, 125:22, 141:21, foundation [3] -366:25 259:24, 259:25, 114:10, 114:13, 143:19, 146:1, 414:23, 421:2, frozen [4] - 221:5, 114:21, 115:4, 272:4, 273:17, 155:8, 189:3, 217:4, 422:17 257:13, 257:16, 115:5, 115:8, 274:18, 276:4, 229:13, 229:16, four [52] - 20:10, 48:2, 257:23 115:16, 116:10, 276:7, 276:11, 231:7, 250:20, Fuck [1] - 275:17 48:7, 49:18, 54:4, 116:12, 116:14, 276:20, 277:3, 251:11, 261:17, 55:13, 59:16, 67:14, fucked [1] - 92:21 116:16, 117:17, 278:8, 282:11, 263:17, 288:3, 88:15, 125:4, 126:5, fucking [1] - 92:13 117:18, 117:23, 291:15, 292:18, 293:9, 296:19, 126:12, 150:22, full [7] - 97:23, 150:14, 118:1, 118:6, 298:16, 298:17, 304:11, 306:8, 160:3, 164:22, 169:6, 215:13, 118:18. 119:2. 298:20, 299:1. 327:18, 334:8, 359:1 166:9, 177:6, 244:6, 261:10, 119:15, 121:16, 299:4, 301:1, Game-Day [3] - 25:7, 192:21, 192:22, 285:24 121:19, 122:5, 307:20, 310:12, 231:7, 250:20 193:3, 236:21, fully [4] - 35:23, 205:9, 123:8, 123:9, 310:16, 318:7, game-day [28] - 123:8, 240:8, 240:13, 287:1, 443:24 123:10, 123:15, 318:17, 318:20, 190:13, 197:15, 249:9, 298:24, function [1] - 354:1 133:12, 142:21, 328:22, 329:5, 199:4, 228:16, 298:25, 318:14, functioning [1] -159:13, 163:5, 349:19, 352:21, 231:2, 310:16, 318:15, 318:18, 351:18 352:22, 353:12, 163:25, 170:3, 328:22, 329:5, 318:19, 318:20, furthermore [1] -170:10, 170:18, 354:19, 355:13, 349:19, 353:12, 319:13, 322:8, 447:15 170:19, 172:23, 356:20, 357:22, 358:7, 358:18, 322:18, 347:22, FYI [2] - 94:19, 144:23 183:18, 186:5, 357:24, 358:7, 358:20, 358:23, 362:9, 368:23, 358:11, 358:16, 186:20, 187:2, 366:19, 384:10, 369:6, 382:5, G 189:23, 190:13, 358:18, 358:20, 384:11, 388:13, 391:10, 391:11, 191:22, 192:12, 358:23, 359:6, 400:18, 401:1, 389:5, 390:5, Gabe [1] - 347:19 192:21, 193:1, 363:22, 364:9, 401:10, 406:16, 401:23, 406:12, Gabe's [1] - 281:12 193:7, 193:11, 364:17, 365:1, 408:13, 409:11, 413:23, 416:1, gain [2] - 24:15, 69:9 193:14, 193:18, 365:2, 365:14, 409:21, 443:4, 444:2 418:11, 421:20, Galanis [1] - 307:18 193:25, 197:15, 365:17, 366:19, games [13] - 23:18, 423:24, 437:4, 437:8 game [331] - 12:11, 199:4, 200:17, 366:24, 368:19, 48:20, 49:2, 77:3, **four-hour** [1] - 20:10 12:13, 12:14, 13:6, 200:18, 200:23, 368:24, 369:10, 122:14, 230:23, fourth [1] - 205:20 19:19, 22:9, 22:20, 206:3, 215:21, 370:5, 375:8, 234:2, 249:5, Foxborough [1] -23:13, 23:25, 24:6, 215:24, 216:4, 375:13, 375:18, 249:10, 255:5, 335:6 24:9, 31:15, 31:17, 216:8, 217:3, 376:8, 376:9, 377:24, 378:11, framed [1] - 138:22 31:20, 33:17, 35:25, 217:11, 217:14, 376:16, 378:3, 378:14 framework [4] -37:23, 40:15, 48:15, 218:6, 218:7, 382:17, 384:6, gaming [1] - 350:21 156:25, 158:11, 49:4, 49:11, 49:12, 221:10, 221:17, 384:10, 384:11, Ganot [1] - 347:19 159:13, 172:21 49:22, 50:3, 51:1, 222:25, 228:12, 388:13, 389:5, gap [11] - 39:18, frankly [8] - 18:3, 51:25, 52:5, 52:7, 228:14, 228:16, 390:5, 394:19, 103:1, 103:7, 28:4, 208:9, 413:16, 52:13, 52:15, 52:16, 229:7, 229:24, 396:5, 400:18, 103:10, 103:14, 415:16, 420:8, 54:2, 54:16, 54:23, 230:9, 231:2, 231:3, 401:10, 401:23, 103:19, 104:4, 438:20, 444:6 54:24, 54:25, 55:4, 231:4, 231:14, 406:16, 406:17, 107:16, 107:18, fraud [1] - 325:2 55:9, 55:14, 55:22, 232:1, 232:14, 407:2, 407:6, 112:4, 112:20 free [4] - 43:12, 87:2, 56:1, 56:2, 56:4, 233:14, 233:16, 407:16, 408:8, Gardi [8] - 227:17, 454:13 56:7, 56:24, 57:6, 233:17, 233:20, 408:13, 409:11,

ument 28-230 <del>4**0 of 17</del>2</del>age 22</del>** 08/04/15 Case 1:15-cv FO-KIMP-2CI 237:18, 237:21, 221:22, 232:2, 378:15, 378:20, 378:17, 378:21, gland [1] - 351:14 239:14, 240:11, 232:3, 232:5, 378:24, 379:4, 378:22, 378:25, **Glaser** [2] - 300:9, 241:11, 241:17, 232:10, 232:11, 379:5, 379:11, 379:2, 379:16, 300:14 242:1 232:14, 232:15, 391:25, 392:1, 379:17, 379:18, glaser [2] - 300:16, Gardi's [1] - 240:25 232:18, 240:23, 392:2, 392:3, 392:5, 379:19, 379:21, 306:18 392:10, 392:13, Garrison [1] - 263:13 240:25, 241:4, 380:4, 380:6, glazer [1] - 307:1 241:7, 259:8, 392:17, 397:22, 413:24, 415:25, **GARRISON** [1] - 3:15 glove [4] - 12:8, 426:12, 426:15 291:16, 291:17, 403:1, 403:2, Gary [1] - 152:16 398:18, 401:12, 291:22, 291:23, 403:12, 403:17, gas [36] - 16:16, 18:3, gee [2] - 15:6, 438:23 402:18 292:5, 292:9, 294:5, 404:6, 404:8, 404:9, geez [1] - 364:16 19:24, 33:22, gloved [1] - 399:17 294:8, 294:10, 404:11, 405:1, General [5] - 3:5, 3:6, 184:19, 188:16, gloves [5] - 26:5, 53:6, 295:1, 295:5, 295:8, 405:2, 405:12, 152:3, 229:17, 266:7 189:14, 219:16, 53:8, 258:1, 396:12 295:9, 295:22, 405:15, 405:19, general [16] - 9:13, 219:21, 219:23, gloving [18] - 69:7, 295:25, 296:3, 408:7, 408:8, 220:4, 220:14, 21:25, 22:11, 49:2, 396:2, 396:8, 296:4, 296:7, 408:20, 410:4, 220:21, 221:2, 99:7, 157:11, 396:10, 396:20, 296:13, 296:14, 414:3, 414:4, 414:5, 221:11, 231:5, 157:13, 158:8, 396:22, 396:23, 296:21, 297:5, 414:6, 419:6, 209:17, 209:18, 237:13, 252:25, 396:25, 397:2, 297:7, 297:10, 421:19, 423:14, 280:5, 280:6, 288:1, 314:18, 428:21, 397:3, 397:10, 297:13, 297:16, 423:16, 423:18, 433:9, 434:18, 288:6, 288:8, 397:15, 398:10, 297:24, 299:11, 423:21, 423:22, 288:13, 290:23, 435:2, 436:6 398:14, 399:1, 299:16, 299:17, 424:3, 424:5, 314:19, 364:19, generally [28] - 9:1, 399:6, 399:15 299:18, 300:10, 424:10, 424:11, 365:12, 365:16, 9:9, 9:11, 9:16, GMs [2] - 22:25, 301:7, 301:13, 424:12, 424:13, 365:23, 365:24, 13:14, 19:14, 21:12, 250:23 301:21, 301:25, 424:22, 426:1, 366:2, 371:25, 22:5, 22:6, 23:21, GOLD [2] - 3:18, 302:3, 302:4, 426:14, 426:17, 375:21, 426:6 27:2, 30:12, 42:24, 198:25 302:11, 302:22, 426:20, 426:21, 43:2, 75:17, 177:13, Gas [8] - 18:9, 184:2, Goldberg [15] -302:24, 303:2, 426:22, 426:25, 184:4, 220:10, 234:2, 236:15, 117:21, 313:11, 303:6. 303:13. 427:3, 427:4, 427:7, 231:9, 372:4, 243:1, 246:2, 313:12, 313:14, 306:16, 316:1, 446:25, 447:8, 248:20, 249:10, 393:25, 394:5 313:16, 313:17, 316:4, 316:7, 316:8, 447:9, 447:12, gatekeeper [1] - 360:3 250:9, 251:15, 313:18, 313:20, 316:9, 319:24, 447:14 257:15, 273:14, Gauge [1] - 17:10 313:24, 314:1, 319:25, 323:25, gauged [3] - 293:23, gauge [264] - 17:11, 274:2, 435:20 314:3, 329:9, 293:24, 455:11 352:11, 353:17, generated [5] - 203:2, 159:12, 161:9, 329:11, 332:14 353:18, 355:5, gauges [81] - 161:3, 204:17, 209:13, 161:15, 162:2, golf [3] - 120:21, 355:15, 355:17, 163:4, 184:20, 352:15, 432:3 163:11, 183:17, 120:22, 120:23 363:21, 364:4, 187:20, 189:10, gentlemen [1] - 274:7 184:21, 184:22, Goodell [6] - 99:8, 364:5, 364:6, 189:20, 189:22, gently [1] - 120:24 184:25, 185:1, 105:12, 111:6, 364:13, 364:17, 189:24, 192:1, 185:7, 185:10, George [1] - 150:25 309:22, 309:25, 365:13, 365:17, 200:23, 216:15, 185:13, 185:23, GIBSON [1] - 3:20 337:5 366:15, 366:18, 218:13, 218:18, 185:25, 186:1, given [47] - 9:4, 20:10, GOODELL [143] -366:22, 366:23, 218:21, 219:5, 186:6, 186:7, 186:8, 22:12, 22:13, 22:15, 1:19, 2:4, 6:5, 7:8, 366:24, 367:3, 219:6, 219:7, 219:8, 186:10, 186:12, 22:16, 22:17, 22:19, 7:18, 48:13, 49:16, 367:8, 368:18, 221:17, 231:24, 186:13, 186:19, 25:18, 28:15, 30:19, 52:23, 54:12, 54:15, 368:19, 368:25, 231:25, 232:3, 186:24, 186:25, 51:12, 98:12, 108:1, 54:18, 56:1, 56:9, 369:1, 372:14, 232:4, 232:7, 232:8, 187:2, 187:7, 152:18, 156:24, 59:13, 59:17, 60:14, 372:16, 372:17, 232:22, 232:24, 187:11, 188:1, 156:25, 158:11, 60:18, 60:21, 60:24, 372:18, 372:19, 240:13, 240:16, 188:2, 188:13, 159:13, 174:21, 61:12, 61:15, 62:6, 374:14, 374:16, 240:18, 240:21, 189:19, 191:14, 183:20, 206:2, 62:9, 65:18, 65:21, 374:20, 374:22, 240:24, 282:5, 191:23, 214:21, 206:4, 220:8, 65:24, 66:2, 67:1, 374:24, 375:2, 282:8, 296:11, 215:3, 215:20, 231:18. 250:23. 68:15, 69:13, 69:16, 375:5, 375:9, 296:12, 296:19, 216:3, 216:18, 250:24, 251:3, 69:19, 70:4, 70:13, 375:10, 375:15, 300:25, 301:19, 216:19, 216:21, 272:14, 272:18, 70:19, 70:22, 71:1, 301:23, 315:23. 375:16, 375:17, 217:5, 217:6, 217:7, 273:2, 296:12, 71:8, 71:12, 71:14, 376:6, 376:10, 315:25, 316:1, 217:8, 217:16, 304:21, 305:9, 72:8, 74:20, 80:11, 376:15, 376:16, 316:11, 320:1, 217:20, 218:9, 313:9, 313:10, 80:15, 88:7, 88:17, 376:22, 377:1, 320:9, 320:13, 218:10, 218:12, 313:17, 313:23, 88:23, 89:2, 89:14, 377:14, 377:15, 350:1, 355:4, 355:6, 218:16, 218:24, 321:21, 323:16, 99:21, 99:24, 377:18, 377:19, 355:7, 355:12, 219:3, 219:4, 342:8, 348:7, 109:21, 117:3, 377:21, 377:24, 369:9, 376:25, 219:24, 221:10, 399:24, 400:3, 117:6, 117:9, 377:25, 378:4, 377:4, 377:7, 221:19, 221:21, 400:5, 408:16, 413:4 117:13, 117:16, 378:7, 378:12, 377:16, 377:20,

ument 28-230 <del>11 of 17</del>2age 23 06/04/15 117:22, 117:25, great [5] - 312:17, 117:7, 120:3, 235:3, 235:7, 238:2, 245:16, 338:24, 379:17, 391:18, 122:19, 124:18, 312:17, 312:18, 239:7, 251:11, 312:18, 315:23, 125:20, 128:1, 344:11 330:6 288:19, 288:25, 410:22, 453:6 133:10, 133:16, greater [8] - 164:15, guys [5] - 135:15, 290:18, 291:4, Hargrove [2] - 45:3, 136:13, 136:19, 173:2, 180:16, 146:10, 146:18, 292:20, 292:25, 45:9 137:11, 137:14, 182:10, 199:24, 298:16, 318:15, 148:12, 265:22 Hargrove's [1] - 45:7 137:16, 145:24, 200:17, 354:20, gym [1] - 294:21 318:21, 318:23, Harvard [2] - 269:9, 146:4, 146:7, 327:13, 327:21, 367:23 269:10 339:25, 349:7, 146:10, 146:14, greatest [1] - 428:3 Н Harvard-trained [2] -349:19, 349:24, 146:16, 146:18, Greek [1] - 430:10 269:9, 269:10 146:22, 146:25, Hadron [1] - 441:3 352:22, 354:14, Green [1] - 64:11 hasty [1] - 181:11 half [56] - 13:9, 13:10, 354:18, 354:24, 147:5, 147:10, Greenberg [1] hated [1] - 55:24 147:15, 147:23, 358:2, 358:5, 57:8, 59:11, 59:25, 155:15 **HAUER** [1] - 2:19 361:14, 370:2, 148:4, 148:6, 73:1, 73:10, 73:11, Greenspan [1] - 150:4 head [3] - 22:11, 99:8, 148:10, 148:14, 73:15, 73:19, 73:21, 370:3, 374:15, GREENSPAN [6] -229:2 74:4, 111:20, 148:18, 149:1, 375:1, 376:24, 3:11, 150:6, 150:13, heading [1] - 129:11 155:17, 155:23, 111:21, 118:21, 394:19, 403:6, 194:14, 203:15, headquarters [1] -156:4, 168:7, 118:22, 118:23, 405:11, 406:9, 225:18 346:1 168:14, 168:23, 119:11, 126:17, 407:17, 413:16, Gregg [5] - 6:16, 6:22, heads [2] - 94:23, 95:8 170:9, 170:14, 413:19, 413:21, 148:13, 148:20, 6:25, 7:2, 148:14 heads-up [2] - 94:23, 170:17, 170:22, 168:12, 168:14, 415:15, 417:3, GREGG [2] - 2:12, 95:8 177:5, 178:1, 180:1, 420:10, 421:10, 168:24, 170:16, 2:23 health [1] - 346:5 180:11, 180:13, 175:5, 177:1, 177:2, 421:12, 424:8, Grigson [1] - 229:18 hear [25] - 8:11, 10:23, 180:17, 180:20, 177:21, 179:6, 426:13, 427:4, grip [9] - 35:4, 50:12, 10:24, 11:20, 12:15, 189:21, 192:11, 182:13, 190:6, 428:18, 429:2, 53:14, 55:7, 55:20, 14:16, 20:19, 20:20, 191:9, 229:16, 194:18, 221:25, 429:15, 431:22, 57:3, 116:18, 28:24, 30:5, 32:10, 225:19, 226:6, 230:4, 239:21, 431:23, 432:21, 120:13, 120:16 32:12, 37:9, 37:16, 227:19, 230:3, 239:22, 309:2, 433:14, 438:24, gripping [2] - 49:7, 38:4, 39:15, 43:10, 230:6, 233:13, 319:16, 350:24, 438:25, 446:5, 120:21 87:23, 100:10, 252:2, 256:23, 364:16, 369:24, 449:22, 450:3, grossly [2] - 115:17, 100:13, 180:1, 257:1, 260:20, 451:5, 451:15, 375:10, 375:11, 120:9 211:11, 331:12, 452:11 277:15, 386:4, 378:9, 390:15, grounds [2] - 7:22, 445:13, 456:11 396:7, 397:11, 390:17, 397:23, **hall** [1] - 309:8 266:6 heard [26] - 6:15, 7:24, 398:3, 398:6, 399:8, 399:12, 399:24, hallway [1] - 128:8 Group [2] - 155:14, 30:2, 30:4, 35:1, 406:21, 406:23, 400:16, 400:20, Hampshire [1] - 2:21 35:18, 37:5, 40:15, 412:4 400:25, 401:15, 419:22 hand [10] - 50:12, group [14] - 155:14, 74:17, 74:21, 74:25, 401:19, 401:22, halftime [117] - 13:12, 53:14, 116:22, 81:16, 136:15, 155:18, 156:2, 402:1, 402:12, 33:2, 72:25, 73:6, 155:2, 160:23, 200:4, 229:23, 156:7, 164:21, 402:15, 404:1, 159:5, 159:25, 160:24, 198:23, 231:5, 231:11, 165:25, 193:5, 436:9, 439:14, 160:7, 163:25, 240:5, 403:22, 195:12, 195:14, 269:7, 272:19, 454:1, 454:4, 168:3, 168:6, 170:5, 405:16 272:23, 315:5, 195:21, 196:3, 454:15, 457:4 172:6, 176:13, handed [2] - 84:3, 330:1, 359:11, 196:19, 345:16, Gostkowski [4] -180:8, 181:5, 181:6, 84:13 345:17 369:17, 414:13, 121:6, 335:7, 184:1, 185:9, handful [1] - 434:9 455:20 guarantee [1] - 282:23 341:11, 341:24 185:24, 186:16, handing) [1] - 198:25 Hearing [1] - 457:5 guess [16] - 19:3, **Government** [2] - 2:7, 187:12, 187:21, handle [2] - 120:23, 27:16, 54:19, 79:4, hearing [13] - 6:13, 192:25, 193:4, 347:17 148:14 6:14, 28:13, 28:25, 87:9, 101:13, grab [4] - 49:25. 193:15, 193:17, handled [1] - 257:20 110:9, 110:17, 114:17, 148:11, 306:1, 382:8, 382:9 193:23, 199:23, handling [2] - 18:14, 117:12, 121:11, 170:15, 225:11, 200:21, 200:23, gradient [1] - 393:16 384:10 150:1, 270:17, 350:24, 373:11, 204:22, 205:3, gradients [1] - 393:12 hands [2] - 50:1, 272:18, 456:7, 398:1, 425:22, 206:6, 206:9, graduate [1] - 210:25 355:6 438:10, 441:12 456:18 211:15, 215:14, graduates [1] - 281:7 hanging [1] - 312:20 **HEARING** [1] - 1:8 guessing [1] - 89:6 216:3, 221:6, grant [1] - 226:17 happy [7] - 7:20, heat [2] - 19:3, 23:18 guest [1] - 307:7 221:12, 222:15, granted [1] - 226:25 14:20, 212:10, guidance [5] - 169:7, heated [3] - 23:12, 222:23, 222:25, graph [4] - 174:14, 224:18, 343:5, 257:24, 291:7 173:25, 182:15, 224:5, 224:6, 405:16, 410:9, 413:9, 456:24 208:8, 208:9 heaters [2] - 257:10, 224:14, 225:8, 410:12 hard [13] - 56:5, 56:18, 257:14 guilty [1] - 338:22 230:12, 233:22, graphs [3] - 380:21, 63:9, 133:8, 135:16, Heather [1] - 226:11 **GUMP** [1] - 2:19 234:3, 234:20, 404:17, 445:6 138:22, 196:11, **HEATHER** [1] - 3:5 guy [8] - 69:24, 91:4, 234:21, 234:25,

<del>2 of 17</del>2age 24 ument 28-230 06/04/15 heating [3] - 19:5, 101:15, 156:22, 225:23 361:12, 363:20, 348:18, 360:18, 373:22, 396:24, 261:15, 261:25, 413:23, 414:16, 41:9, 405:25 **HR** [1] - 154:13 415:5. 416:24. heavily [1] - 119:24 266:24, 270:18, huge [4] - 19:1, 192:5, 416:15 height [2] - 175:8, 283:2, 283:4, 339:16, 433:21 identifies [2] - 199:19, 420:19, 427:22, 283:24, 286:23, 203:1 427:23, 428:6, 175:9 human [5] - 34:6, 428:9, 436:22, 287:18, 323:7 identify [9] - 7:5, held [6] - 21:22, 27:2, 34:7, 34:11, 34:22, 443:9, 443:13 hiring [1] - 284:3 209:2 140:24, 153:12, 46:5, 314:5, 412:13, importantly [3] -440:8 historically [3] hundreds [8] - 54:8, 163:4, 163:10, hell [2] - 64:16, 338:17 114:17, 114:19, 294:11, 301:19, 207:10, 226:1, 29:24, 31:5, 32:9 117:19 302:1, 316:2, 355:5, 327:16, 437:10 impose [4] - 243:8, help [8] - 39:5, 155:9, history [11] - 20:24, ignore [1] - 36:23 243:14, 312:4, 262:9, 280:15, 377:15, 378:16 416:10 25:8, 25:10, 44:21, Hunter [1] - 322:14 ignored [1] - 223:23 298:19, 327:7, 45:13, 45:16, 46:9, imposed [8] - 7:23, ignores [5] - 197:24, 349:2, 392:7 hurt [5] - 304:20, 15:18, 23:16, 42:12, helped [1] - 358:18 46:12, 46:13, 304:24, 338:16, 359:19, 414:19, 119:20, 378:14 339:3, 339:4 445:19, 447:15 45:18, 45:25, helpful [3] - 53:18, hits [1] - 55:17 243:16, 326:15 124:11, 456:17 hydrometer [1] -III [1] - 2:6 imposing [4] - 27:25, **hmm** [4] - 237:20, 386:15 ill [1] - 304:19 helping [2] - 348:1, 417:17, 419:23, 245:8, 258:25, hypotheses [1] ill-advised [1] -348:3 420:14 helps [1] - 420:9 431:12 178:5 304:19 hold [5] - 46:9, illegal [1] - 378:5 impossible [2] - 55:7, hereby [1] - 457:8 120:24, 277:14, 120:19 ı illustrates [1] - 45:10 hesitancy [1] - 285:23 412:9, 412:21 impressed [1] - 444:7 imaginable [1] - 21:3 hesitant [1] - 55:21 idea [21] - 13:6, 35:8, **holding** [1] - 46:16 impromptu [2] hesitating [2] imagine [1] - 161:19 38:7, 56:11, 75:9, 190:9, 194:5 hole [1] - 329:14 immediate [1] -274:20, 288:5 80:14, 104:24, holes [1] - 219:2 improper [5] - 28:2, hesitation [1] - 340:1 154:15 home [5] - 80:20, 105:5, 122:2, 137:1. 138:1. immediately [10] hi [1] - 140:4 127:17, 164:12, 138:19, 159:9 80:21, 128:18, 103:15, 172:9, hide [2] - 85:18, 86:21 167:14, 167:15, improperly [5] -133:7, 133:19 172:11, 174:8, hiding [1] - 338:22 178:12, 181:9, 222:14, 361:13, honest [2] - 20:4, 230:10, 247:6, high [6] - 169:14, 189:8, 189:9, 241:4, 380:20, 381:19, 75:18 262:5, 391:15, 294:10, 295:2, 296:2, 318:19, 368:3 honestly [1] - 11:16 446:4 408:19, 416:1 348:15, 426:19, ideal [36] - 16:16, **IN** [1] - 1:3 honesty [1] - 149:14 impact [16] - 19:1, 435:13 18:3, 19:23, 33:22, inaccurate [5] hope [5] - 14:1, 263:5, 175:13, 182:24, higher [14] - 58:10, 184:19, 188:16, 123:23, 126:9, 279:18, 280:12, 187:15, 204:21, 162:4, 179:11, 189:14, 219:16, 307:25, 404:14, 448:16 231:8, 269:17, 184:22, 186:14, 219:21, 219:22, 418:18 hopeful [1] - 336:3 282:10, 285:25, 219:5, 294:9, 220:3, 220:14, inappropriate [3] hopefully [1] - 6:17 288:9, 290:18, 325:16, 355:18, 220:21, 221:2, 10:16, 223:22, 314:20, 350:21, hoping [1] - 155:24 382:22, 421:20, 221:11, 231:5, 273:15 351:8, 356:16, 428:3 426:14 horizontal [1] - 170:1 237:13, 252:25, inch [1] - 113:23 host [1] - 74:24 impacts [1] - 328:20 highest [1] - 324:25 280:5, 280:6, 288:1, incident [9] - 23:10, implausible [2] - 38:6 hot [3] - 16:18, 291:6, highlighted [5] -288:6, 288:8, 24:2, 41:15, 44:23, implicate [1] - 334:15 59:10, 59:21, 119:4, 314:22 288:13, 290:23, 245:23, 247:4, implicit [1] - 419:14 hotel [1] - 238:1 122:22, 225:3 314:19, 364:19, 255:12, 259:22, implied [1] - 416:19 hour [12] - 20:10, highly [4] - 40:10, 365:12, 365:16, 260:13 131:24, 148:13, importance [7] -377:10, 391:21, 365:23, 366:2, incidentally [1] -160:16, 169:4, 444:7 148:20, 226:9, 371:25, 375:21, 128:24 226:17, 226:18, 169:25, 172:5, Hill [1] - 24:13 426:6 incidents [3] - 48:16, 227:1, 227:6, 313:1, 175:24, 176:5, 439:5 hill [2] - 24:21, 249:24 Ideal [7] - 18:9, 184:1, 249:18, 253:9 343:5, 402:4 important [41] - 7:21, Hillebrand [4] - 69:24, 184:4, 220:10, inclement [4] - 55:9, 10:20, 12:23, 21:16, hours [15] - 67:11, 70:1, 71:18, 120:3 231:9, 372:4, 394:5 68:22, 69:17, 70:5 67:14, 68:24, 70:18, 21:17, 30:15, 31:14, himself [17] - 36:11, ideas [2] - 283:19, 50:8, 50:9, 120:16, inclined [1] - 226:16 86:5, 126:17, 43:16, 135:8, 329:7 include [22] - 110:17, 226:14, 233:24, 158:2, 168:8, 169:7, 246:12, 260:1, identified [17] -110:22, 159:1, 352:24, 400:18, 170:22, 173:21, 273:23, 274:17, 100:19, 140:12, 179:19, 198:15, 401:1, 401:16, 190:18, 191:21, 307:14, 308:5, 141:9, 157:13, 198:22, 199:8, 191:24, 198:11, 401:23, 402:4, 402:5 308:11, 308:17, 157:16, 157:21, 201:13, 202:11, hours' [1] - 226:9 200:2, 200:4, 308:24, 309:3, 157:22, 163:24, 213:17, 221:20, 203:21, 210:18, house [2] - 294:12, 309:9, 314:5, 316:22 184:11, 243:21, 210:20, 228:15, 248:25, 334:4, 294:19 hire [2] - 280:7, 283:1 358:3, 358:25, 228:18, 238:18, 341:16, 341:18, hired [13] - 101:13, housekeeping [1] -

ument 28-230 <del>4**3 of 17</del>2</del>age 25</del>** Case 1:15 325:25, 425:3, 202:13, 252:23, 254:25, 276:8 182:12 interestingly [3] -451:24, 452:6, 261:20, 262:8, inflating [3] - 64:25, insignificant [7] -40:1, 191:13, 419:22 262:12, 264:18. 65:4. 135:1 452:7, 452:12, 179:20, 361:16, interfere [1] - 323:22 454:24 264:24, 266:11, inflation [31] - 35:2, 430:22, 431:3, interject [1] - 7:1 included [17] - 179:18, 266:17, 267:1, 35:7, 50:16, 50:21, 431:15, 446:7, 453:9 internal [8] - 356:21, 267:3, 270:12, 191:17, 198:16, 51:13, 51:15, 66:12, insistent [1] - 364:15 393:7, 393:9, 394:1, 271:9, 286:7, 202:14, 202:20, 73:10. 97:22. inspected [1] - 239:20 394:6, 394:7, 322:24, 323:8, 202:24, 204:1, 100:18, 100:23, instead [4] - 45:25, 394:10, 394:17 323:10, 348:17 204:19, 207:1, 101:3, 101:7, 176:25, 188:9, internally [1] - 397:18 243:22, 369:20, independently [4] -113:11, 114:12, 211:20 internet [1] - 379:22 369:22, 441:21, 8:20, 156:3, 285:8, 114:15, 119:17, instinctively [1] interpret [7] - 24:23, 311:15 449:8, 454:24, 119:19, 119:21, 433:6 137:2, 137:3, 454:25, 455:16 index [1] - 98:18 124:2, 136:3, Institute [2] - 353:19, 275:21, 276:1, includes [6] - 32:25, Indianapolis [2] -143:17, 143:23, 412:22 277:1, 277:5 103:11, 103:14, 229:18, 299:17 253:2. 254:19. institution [2] - 154:4, interpretation [1] -103:19, 103:23, indicate [7] - 13:23, 276:10, 276:14, 154:9 206:18 104:14 63:13, 96:3, 219:5, 277:4, 332:20, instruct [3] - 118:25, interpreted [1] - 455:4 351:9, 360:22 including [10] - 30:1, 235:20, 392:19, 235:14. 235:20 interrupt [1] - 224:22 influence [2] - 349:11, 36:6, 42:8, 141:8, 397:9 instructed [2] - 23:14, intersection [4] -350:4 166:6, 313:15, indicated [11] - 8:10, 233:7 403:5, 403:23, inform [1] - 256:21 326:4, 354:7, 225:23, 226:23, instruction [3] -404:2, 405:10 357:25, 413:24 289:9, 309:16, information [34] -121:18, 121:21, intervention [5] inclusion [2] - 438:6, 370:1, 374:12, 19:13, 38:19, 38:23, 231:18 34:6, 34:7, 34:11, 450:11 396:10, 403:6, 39:9, 43:16, 48:17, instructions [4] -34:22, 209:2 inconclusive [1] -416:5, 456:14 89:9, 90:25, 91:8, 96:10, 232:13, interview [42] - 29:15, 315:21 indicates [2] - 204:12, 94:19, 155:21, 323:17, 348:7 40:5, 74:25, 78:10, inconsequential [2] -315:5 243:14, 253:24, instrument [1] -108:24, 109:25, 115:1, 116:17 indicating [7] - 53:9, 253:25, 254:11, 353:14 110:5, 110:10, 254:16, 254:23, inconsistency [3] -171:7, 174:18, integrity [18] - 22:8, 138:10, 138:11, 299:24, 305:17, 187:6, 219:24, 184:12, 386:17, 22:19, 23:25, 25:20, 138:16, 243:24, 315:11, 320:22, 386:22, 451:22 431:19 29:22, 31:15, 31:17, 244:6, 244:25, inconsistent [3] indicating) [7] - 25:17, 332:16, 333:3, 31:20, 35:25, 40:14, 249:4, 281:19, 147:16, 221:19, 161:1, 171:23, 334:3, 334:19, 46:15, 149:14, 281:20, 283:24, 432:1 172:1, 175:10, 337:7, 337:11, 154:9, 228:12, 293:12, 304:25, 352:21, 357:24, 182:17, 182:19 incorporate [1] -250:18, 272:4, 305:19, 305:25, 392:23, 393:3, indication [4] -211:13 311:22, 311:25 309:21, 310:2, 408:9, 408:16, 437:6 Incorporated [1] -260:14, 369:8, 310:10, 312:19, Integrity [3] - 98:17, informed [2] - 86:16, 345:14 383:22, 435:20 98:24, 99:9 313:15, 320:14, 122:8 incorporated [3] indications [2] -320:15, 320:20, intend [2] - 7:13, 8:1 initial [8] - 27:25, 213:4, 213:12, 369:10, 391:17 321:1, 321:10, intending [2] - 209:4, 144:8, 184:6, 367:11 individual [1] - 362:20 325:17, 325:22, 209:5 291:15, 347:6, incorporating [1] individuals [2] -335:5, 335:8, 335:9, intense [1] - 57:15 380:14, 399:13, 212:17 156:8. 309:13 335:21, 336:8, intensity [1] - 57:19 413:14 industrial [1] - 151:10 336:16, 340:21, incorrect [2] - 202:7, intensive [1] - 442:2 inquire [1] - 164:13 286:24 industries [4] -341:1 intention [2] - 360:3, inserted [3] - 160:14, 151:18, 152:8, interviewed [18] incorrectly [1] -442:19 351:13, 353:14 161:18 152:10, 153:14 29:22, 34:15, 37:24, interact [1] - 441:23 insertion [2] - 350:7 increase [3] - 291:7, infant [1] - 153:18 74:21, 74:23, 86:2, interactions [2] insertions [2] - 351:9, 360:25. 425:15 89:17, 107:8, infer [2] - 66:9, 66:15 440:25, 442:5 351:16 107:11, 243:25, increasing [2] - 366:4, inference [2] - 38:22, intercepted [2] inside [14] - 230:18, 394:13 44:12 274:6, 292:1, 307:5, 191:8, 320:3 231:16, 234:17, 310:11, 312:16, inflate [1] - 119:8 increments [1] - 214:5 interest [4] - 156:1, 288:24, 351:1, 325:18, 330:10, incriminating [3] inflated [19] - 18:23, 271:20, 344:11, 351:13, 351:22, 335:7 14:22, 14:24, 149:19 18:25, 35:14, 58:9, 344:12 353:14, 354:1, interviewing [1] indeed [1] - 157:8 59:9, 113:14, interested [2] - 6:13, 356:10, 382:5, 314:18 independence [4] -113:22, 114:8, 7:25 393:10, 393:22, interviews [8] -262:4, 322:3, 116:5, 118:9, 119:9, interesting [7] - 24:21, 397:23 244:14, 244:15, 348:13, 348:15 119:24, 119:25, 25:19, 155:20, insight [1] - 183:1 122:9, 177:7, 267:8, 267:10, independent [21] -212:11, 279:7, insights [2] - 153:4, 27:24, 29:9, 30:19, 281:19, 288:22, 193:17, 238:21, 295:18, 360:14

ument 28-230 <del>14 of 17</del>2age 26 08/04/15 Case 1.15-cv TO-KMR-3C 307:23, 308:8 3:15, 8:21, 39:10, 344:1, 366:16, 93:1, 93:14, 95:3, iets [42] - 12:13, 141:18 398:4, 456:12 95:14, 95:19, 96:4, 12:14, 24:3, 24:4, intriguing [1] - 189:4 introduce [1] - 421:7 invite [1] - 80:8 issued [11] - 8:16, 97:3, 111:2, 111:9, 24:6, 52:5, 52:13, introduced [1] invited [2] - 79:19, 263:23, 264:21, 111:19, 112:2, 54:16, 56:1, 56:2, 80:3 265:18, 268:1, 114:18, 123:19, 56:4, 58:2, 58:7, 455:10 272:25, 302:6, 124:8, 125:3, 59:14, 61:13, 62:10, introduction [1] inviting [1] - 79:23 125:12, 125:16, 302:14, 330:13, 62:14, 62:19, 63:14, invoked [2] - 9:8, 22:8 438:6 125:25, 126:4, 330:18, 376:21 63:23, 68:20, 69:2, intuition [2] - 189:6, involve [3] - 135:18, 126:12, 126:19, 256:14, 267:8 issues [15] - 6:17, 70:4. 70:11. 72:18. 189:11 127:5, 127:9, 27:13, 29:2, 31:16, 92:9, 93:17, 93:23, invalidate [1] - 286:2 involved [30] - 24:4, 145:4, 145:10, 127:15, 128:10, 93:24, 94:2, 94:5, investigate [2] -24:5, 35:20, 64:5, 129:12, 129:14, 94:6, 113:18, 216:10, 242:10, 64:10, 64:14, 258:4, 324:6 129:18, 129:22, 114:13, 114:21, 261:16, 262:9, investigated [2] -113:25, 114:3, 130:5, 130:9, 116:10, 250:3, 332:22, 334:14, 24:19, 249:9 136:23, 153:2, 130:21, 130:25, 154:22, 195:22, 334:15. 340:9. 276:4, 276:7, investigation [67] -456:15 131:3, 131:9, 276:11, 277:3 195:25, 243:2, 23:13, 23:23, 29:18, Item [1] - 357:17 131:19, 131:24, Jets [1] - 278:8 247:13, 254:1, 30:19, 30:21, 30:23, 132:2, 132:8, jets' [1] - 52:8 itself [13] - 32:24, 255:14, 256:11, 37:1, 37:11, 45:1, 132:10, 132:18, 37:14, 149:8, 221:3, Jim [5] - 81:24, 123:2, 45:5, 87:24, 141:4, 260:7, 260:14, 132:22, 133:24, 169:17, 200:25, 260:15, 260:16, 247:11, 266:3, 134:25, 135:7, 134:3, 135:1, 266:2, 316:20, 267:11, 288:7, 316:21 237:23, 238:5, 139:11, 140:10, 316:21, 316:23, 301:6, 357:11, Jimmy [1] - 155:15 247:3, 248:14, 357:14, 358:8, 140:13, 140:15, JJ [6] - 258:22, 322:21, 332:9, 250:8, 252:23, 141:8, 141:24, 348:5, 407:16 435:22 258:24, 259:5, 253:5, 254:10, 143:15, 143:22, IX [4] - 300:22, 326:22, 299:11, 299:14, 255:3, 258:8, involvement [5] -144:20, 144:21, 326:23, 327:5 32:19, 242:24, 300:5 258:11, 262:3, 145:14, 145:18, 276:3, 326:2, 326:3 JJ's [2] - 299:17, 262:12, 262:16, 259:9, 273:16, J 300:10 262:21, 263:14, involves [5] - 29:18, 274:3, 274:5, job [11] - 134:22, 153:23, 196:10, 263:18, 264:3, jackson [1] - 191:8 275:18, 275:23, 283:25, 417:18 276:16, 283:5, 264:8, 264:10, 278:11, 293:6, James [1] - 192:12 266:2, 266:23, involving [11] - 15:11, 283:15, 283:25, 299:15, 306:6, **January** [30] - 103:12, 267:1, 267:3, 23:10, 24:3, 25:14, 284:5, 303:5, 323:1, 310:20, 314:25, 31:17, 44:24, 152:5, 103:25, 121:2, 267:11, 270:12, 323:8, 324:6, 324:9 316:24, 325:24, 125:1, 125:4, 272:3, 272:10, 152:13, 196:7, John [65] - 49:14, 326:2, 333:1, 125:11, 125:15, 49:16, 50:2, 52:20, 310:22, 311:5, 273:16, 276:14 337:19, 456:11 126:1, 126:18, 311:17, 311:21, ironically [1] - 24:6 53:21, 55:3, 57:7, Jastremski's [5] -127:3, 129:16, 311:24, 322:11, irony [1] - 120:14 61:2, 61:4, 67:18, 38:8, 62:17, 128:24, 130:4, 131:9, 322:12, 322:15, 69:11, 69:24, 70:1, irrespective [1] -299:18, 306:15 131:11, 132:1, 324:16, 327:7, 88:18 70:2, 70:20, 71:23, Jeff [9] - 88:7, 252:22, 132:7, 132:10, 327:12, 336:1, 71:24, 75:3, 80:11, isolate [1] - 167:19 133:23, 141:9, 261:20, 262:3, 339:4, 339:15, 92:18, 92:20, 94:16, Israel [1] - 13:21 141:10, 143:15, 262:19, 263:15, 347:7, 348:18, 94:18, 94:23, 95:4, issuance [1] - 252:18 267:6, 267:7, 310:2 144:22, 145:13, 349:2, 349:6, 355:1, 97:14, 98:20, 111:2, issue [46] - 12:15, **JEFFREY** [2] - 2:5, 261:23, 263:11, 367:9, 413:3, 112:2, 114:18, 13:5, 13:16, 14:9, 264:12, 264:22, 3:11 115:24, 117:4, 413:13, 415:3, 15:9, 18:17, 22:4, 306:24, 313:2 Jeffrey [6] - 7:18, 417:1, 442:3 117:21, 119:3, 23:8, 27:15, 27:21, Jastremski [114] -28:22, 37:4, 112:18, investigations [4] -120:3, 122:17, 28:2, 29:16, 44:14, 12:20, 12:23, 12:24, 227:15, 342:17 322:6, 322:9, 322:21 124:8, 125:12, 45:18, 45:19, 48:15, 34:25, 37:21, 43:25, jerry [1] - 373:15 125:16, 125:25, investigative [7] -50:16, 86:22, 97:13, 44:5, 49:17, 50:22, Jersey [1] - 84:13 126:12, 127:5, 100:16, 100:22, 159:10, 169:17, 51:18, 53:21, 57:20, jerseys [2] - 83:5, 129:17, 130:4, 109:5, 123:17, 171:18, 178:24, 58:3, 58:8, 60:7, 83:10 123:18, 264:17, 130:8, 131:19, 182:24, 210:8, 60:19, 60:21, 61:10, 267:19 jet [2] - 115:16, 117:17 132:2, 132:10, 220:20, 229:11, 62:12, 63:3, 67:19, 132:21, 132:25, **Jet** [13] - 55:8, 56:24, investigator [11] -271:5, 279:3, 67:23, 68:8, 70:2, 115:4, 116:14, 133:6, 133:24, 29:9, 29:20, 261:16, 291:11, 292:12, 71:15, 75:4, 75:11, 134:16, 134:25, 261:19, 261:20, 117:18, 117:22, 292:13, 311:15, 76:5, 76:9, 77:20, 118:1, 118:6, 137:3, 137:4, 262:8, 262:13, 312:9, 327:23, 78:8, 78:18, 79:20, 118:18, 119:2, 137:21, 143:15, 310:3, 322:25, 328:24, 330:17, 81:1, 92:4, 92:8, 119:15, 121:16, 144:20, 144:21, 323:8, 323:20 341:10, 342:3, 92:12, 92:15, 92:18, 121:19 145:14, 145:18, investigators [4] -342:19, 342:23,

ument 28-230 08/04/15 <del>1**5 of 17</del>2</del>age 27</del>** 347:13 340:11 36:5, 40:7, 40:16, 11:15, 23:4, 38:8, last [37] - 23:10, jointly [1] - 262:7 41:20, 65:18, 40:11, 56:10, 56:12, 27:14, 39:1, 49:18, keeps [3] - 179:5, joke [1] - 121:5 232:23, 232:24 100:10, 110:12, 58:17, 58:20, 95:13, 54:25, 76:19, 92:16, **JONATHAN** [1] - 3:12 Kensil [1] - 229:20 124:6, 127:2, 99:13, 113:10, 93:5, 93:18, 94:14, 144:15, 233:13, 127:15, 191:21, 97:12, 109:11, Jones [1] - 36:6 kept [4] - 42:17, 252:24, 259:19, 195:4, 229:14, 127:13, 129:6, 236:15, 320:15, Jonny [2] - 78:19, 284:7, 287:4, 288:5, 229:22, 232:16, 129:8, 157:25, 339:7 78:25 318:2, 323:4, 232:20, 233:25, 158:1, 159:10, JOSHUA [3] - 1:23, **KESSLER** [110] - 3:11, 331:11, 334:5, 235:4, 235:9, 5:4, 5:8, 7:10, 7:14, 168:15. 176:18. 457:7, 457:12 235:10, 235:17, 336:19, 339:19, 7:16, 7:19, 42:14, 194:1, 200:15, **JR** [1] - 4:10 340:4, 340:13, 235:19, 237:10, 224:19, 224:25, 47:3, 47:10, 48:10, **Jr** [4] - 47:13, 102:6, 400:16, 402:25, 243:4, 250:22, 251:18, 261:17, 52:6, 52:25, 62:8, 261:11, 263:12 404:11, 406:1, 250:25, 251:1, 264:16, 327:4, 65:20, 65:22, 66:4, judge [6] - 284:2, 406:14, 454:16 255:2, 255:17, 330:20, 356:14, 303:5, 303:10, 66:23, 89:8, 91:19, Kevin [1] - 152:17 259:10, 268:21, 357:17, 409:16, 97:14, 97:16, 98:5, 317:21, 324:3, 324:4 272:8, 272:13, 98:20, 99:16, **KEVIN** [1] - 2:16 418:13, 421:3, Judge [4] - 21:18, 111:20, 112:10, key [25] - 158:13, 272:16, 272:22, 421:20, 431:5, 36:6, 45:24, 46:5 274:9, 274:22, 439:13 158:18, 158:20, 112:15, 112:19, judgment [20] - 14:3, 276:3, 291:12, last-minute [1] - 39:1 168:13, 169:19, 124:20, 135:25, 29:1, 29:10, 31:7, 306:7, 309:24, 184:10, 186:22, lasted [1] - 130:5 136:7, 136:11, 31:8, 31:24, 32:3, 310:5, 310:8, 311:4, 139:2, 139:5, 139:7, 200:7, 210:21, lasting [2] - 131:1, 32:8, 38:13, 40:19, 326:5, 330:5, 143:8, 145:22, 347:22, 354:5, 131:2 40:20, 40:24, 42:4, 148:5, 148:8, 354:9, 359:12, 341:24, 342:2 lasts [1] - 170:8 42:5, 296:8, 309:14, known [11] - 18:10, 359:16, 361:5, 148:11, 148:20, late [3] - 54:24, 317:8, 317:19, 361:10, 361:11, 39:22, 48:11, 75:13, 148:23, 149:5, 395:17, 428:12 324:14 114:11, 142:16, 150:3, 194:15, 363:14, 363:19, latter [2] - 220:12, judgments [1] -414:13, 414:16, 156:7, 206:5, 225:22, 226:7, 220:13 194:11 261:21, 378:10, 226:20, 227:9, 445:13, 445:16, Law [7] - 18:9, 184:2, **jump** [1] - 169:22 227:17, 227:25, 446:3, 446:24 435:2 220:10, 231:9, juncture [1] - 281:18 kick [1] - 24:11 knows [10] - 13:3, 233:15, 242:13, 372:4, 394:1, 394:6 June [5] - 1:10, 6:2, 14:4, 35:8, 36:1, 242:19, 247:16, kicker [3] - 24:19, 105:12, 139:8, 337:5 law [44] - 16:16, 18:3, 44:15, 94:22, 95:7, 247:21, 249:16, 250:8, 335:7 19:24, 21:20, 33:22, juries [1] - 317:12 251:5, 255:8, 95:25, 144:25 kicking [1] - 250:4 46:5, 184:19, jurisdiction [1] -Kraft [12] - 13:19, 255:10, 256:25, kickoff [1] - 24:11 188:16, 189:14, 228:20 257:2, 259:13, 13:22, 14:5, 14:7, kind [37] - 10:16, 189:15, 219:16, jurors [2] - 317:19, 260:18, 260:21, 149:7, 149:10, 11:13, 54:10, 57:22, 219:21, 219:23, 329:24 260:25, 261:8, 149:13, 225:25, 69:3, 69:9, 69:10, 220:4, 220:14, jury [3] - 317:14, 266:9, 266:20, 226:2, 237:19, 75:15, 80:2, 80:4, 220:21, 220:22, 324:8, 325:4 271:7, 277:16, 252:13 82:10, 108:10, 221:2, 221:11, Justice's [1] - 152:4 Kuiper [1] - 152:4 279:1, 294:17, 135:17, 135:20, 231:5, 237:13, 298:8, 318:4, 163:20, 177:24, 252:25, 261:13, K 321:18, 340:18, L 179:3, 194:9, 217:7, 263:12, 280:5, 340:20, 342:15, 245:19, 245:20, 280:7, 284:19, K-balls [1] - 24:11 lab [1] - 282:21 342:18, 342:23, 247:22, 269:11, 288:1, 288:6, 288:8, kala [1] - 373:15 **Labor** [2] - 2:7, 2:17 343:3, 343:15, 269:12, 283:7, 288:13, 290:23, kala-jerry [1] - 373:15 343:21, 343:24, laces [1] - 56:22 287:16, 288:7, 314:20, 364:19, Karp [2] - 324:12, 344:19, 344:23, lack [4] - 15:15, 44:16, 291:2, 295:18, 365:12, 365:17, 329:22 373:10, 386:1, 44:20, 223:24 313:6, 324:17, 365:23, 365:24, keep [20] - 148:11, 392:16, 395:16, laid [1] - 445:3 345:20, 346:3, 366:2, 371:25, 154:8, 165:22, 400:19, 400:22, 352:5, 360:16, language [3] - 135:17, 375:21, 426:6 165:23, 232:22, 401:4, 402:8, 408:2, 172:4, 205:9 405:3, 446:10 lawyer [14] - 15:13, 260:21, 303:20, 408:5, 411:13, **kinds** [3] - 36:8, 68:10, Large [2] - 441:1, 27:2, 37:6, 241:17, 318:25, 383:14, 427:16, 427:19, 346:7 441:2 241:19, 266:22, 384:14, 384:15, 437:23, 439:10, knee [1] - 313:3 large [8] - 39:18, 269:9, 269:10, 384:16, 385:6, 448:13, 453:25, 152:10, 191:1, 297:19, 300:9, knock [2] - 203:17, 385:10, 407:1, 454:17, 455:24, 229:17 349:5, 393:12, 305:3, 305:7, 407:5, 416:25, 456:3, 456:13, 457:2 KNOPP [1] - 2:23 436:16, 443:1, 305:15, 313:14 427:16, 432:2, Kessler [37] - 29:7, 449:16 knowing [4] - 55:3, lawyer's [1] - 305:8 437:24 30:4, 32:6, 32:10, larger [3] - 404:12, lawyers [10] - 14:18, 68:18, 79:15, 296:5 keeping [4] - 226:8, 32:14, 34:1, 34:8, 418:4, 420:12 14:19, 15:8, 84:22, knowledge [50] -226:15, 340:10,

ument 28-230 <del>46 of 17</del>2age 28 Case 1:15-cv .6-KMB-JCI 06/04/15 85:7, 110:17, 418:11, 421:21 118:5, 118:8, **lightning** [3] - 295:7, lives [1] - 43:11 119:17, 119:19, 195:22, 195:24, leather [11] - 12:9, 296:16, 297:3 living [1] - 43:11 270:11, 305:12 53:3, 53:6, 53:8, 119:21, 124:2, likelihood [11] -LLP [6] - 2:10, 2:19, layers [1] - 22:2 53:17, 55:2, 56:20, 151:23, 151:24, 188:12, 207:23, 3:8, 3:15, 3:20, 4:3 LCD [2] - 153:19, 56:22, 57:1, 57:2, 153:1, 165:2, 171:6, 208:15, 209:1, **lobby** [1] - 64:6 171:7, 171:23, lobbying [1] - 66:13 196:7 57:3 209:6, 209:7, lead [9] - 6:25, 182:13, leave [6] - 72:2, 179:23, 193:14, 209:11. 209:22. located [1] - 345:25 217:2, 217:10, 183:5, 261:16, 168:25, 213:15, 222:8, 222:10, 421:6 locker [47] - 23:1, 217:13, 348:12, 261:19, 283:2, 381:21, 452:1, likely [20] - 66:10, 34:14, 82:3, 83:12, 310:3, 413:3, 451:23 456:22 348:15, 382:21, 167:21, 206:2, 83:18, 84:4, 88:14, leaves [1] - 190:9 382:22, 413:18, Lead [1] - 3:15 236:22, 260:7, 121:25, 122:5, 420:7, 420:17, led [2] - 47:25, 161:1 327:8, 357:23, leading [2] - 15:24, 123:20, 170:7, 420:18, 432:12, left [13] - 153:7, 363:7, 389:15, 103:20 170:13, 171:12, 432:17, 432:24, leads [3] - 194:7, 160:24, 173:20, 392:25, 393:4, 171:16, 171:22, 433:2, 434:14, 208:6, 392:24 198:17, 202:15, 403:11, 406:6, 172:11, 172:14, 444:8, 446:17, 229:20, 230:11, 406:10, 408:10, **LEAGUE** [6] - 1:1, 2:3, 172:24, 172:25, 451:4, 455:9 409:9, 420:24, 309:11, 348:20, 2:15, 2:20, 3:3, 3:9 184:9, 189:16, levels [10] - 58:17, 420:25, 424:25, 401:9, 401:14, League [27] - 1:14, 220:18, 251:18, 143:17, 143:24, 455:8 401:19, 403:22 9:18, 11:13, 13:1, 276:13, 276:21, 145:19, 204:22, 18:2, 21:3, 23:13, left-hand [2] - 160:24, limit [10] - 11:13, 13:1, 290:18, 290:25, 215:14, 324:24, 403:22 248:7, 248:18, 292:14, 292:18, 25:17, 25:22, 28:6, legal [9] - 21:7, 21:10, 324:25, 356:19, 249:2, 277:24, 307:10, 307:19, 28:7, 36:9, 46:6, 426:23 278:4, 278:17, 28:10, 46:20, 308:10, 314:22, 64:13, 65:22, **LEVY** [41] - 2:12, 7:4, 395:19, 456:15 352:24, 358:2, 113:20, 190:17, 277:24, 278:4, 7:12, 7:15, 47:1, **limitation** [1] - 20:10 420:22, 424:25, 383:21, 387:17, 228:7, 236:5, 236:8, 62:7, 100:2, 112:18, 249:24, 251:25, 456:14 **limitations** [2] - 20:7, 388:13, 389:4, 148:15, 149:4, legally [1] - 46:18 28:15 390:5, 390:25, 257:21, 314:11, 150:1, 203:17, limited [4] - 386:12, 391:2, 394:7, 406:8, 364:9, 376:2, 377:4 lend [1] - 181:9 226:14, 227:5, 424:24, 435:5, 408:11, 409:10, length [1] - 212:4 League's [1] - 46:9 227:15, 242:18, 435:23 409:21 leak [2] - 350:8, less [16] - 64:1, 68:3, 260:19, 268:13, limits [1] - 63:21 log [3] - 89:9, 90:19, 351:17 119:25, 126:4, 271:6, 271:24, leakage [1] - 351:22 132:19, 182:20, line [11] - 158:16. 338:6 279:4, 294:16, 174:24, 183:11, leaked [1] - 281:22 183:5, 391:19, **logic** [3] - 201:6, 295:11, 318:2, 405:23, 410:7, 190:8, 190:25, 303:23, 418:19 leaking [1] - 351:14 321:22, 340:15, 410:11, 420:25, 194:2, 271:3, logo [171] - 17:10, leaks [3] - 282:25, 342:17, 343:14, 435:24, 436:6, 335:12, 405:3, 17:11, 159:12, 283:13, 283:14 343:20, 343:23, 437:9, 442:1 405:20, 420:21 161:24, 161:25, learn [14] - 18:1, 65:8, 344:16, 344:25, linear [3] - 371:10, 162:2, 183:17, letter [32] - 6:15, 74:12, 114:14, 380:3, 385:25, 14:14, 27:23, 39:3, 419:3, 423:9 184:21, 184:22, 229:11, 272:17, 395:24, 411:16, lineman [1] - 282:12 185:1, 185:2, 185:7, 105:11, 105:17, 287:24, 288:17, 449:13, 456:2, 186:6, 186:7, 186:9, 106:10, 108:21, liner [1] - 371:6 288:23, 289:2, 456:4, 456:21, 457:3 186:12, 186:13, 111:5, 111:7, lines [3] - 109:18, 289:8, 290:11, Levy [2] - 6:16, 6:22 111:17, 114:22, 190:17, 443:5 186:19, 186:24, 290:14, 437:20 levy [5] - 11:2, 21:6, 139:8, 237:18, 187:2. 188:1. linked [1] - 156:2 learned [9] - 58:3, 46:20, 99:18, 225:23 238:20, 240:23, 188:13, 215:20, 58:8, 63:21, 82:19, list [2] - 104:16, **Lexol** [13] - 55:2, 55:5, 240:25, 242:3, 216:18, 216:19, 210:19 84:21, 114:20, 55:15, 68:25, 69:8, 216:20, 217:7, 242:4, 242:6, 117:11, 288:21, listed [4] - 99:3, 69:9, 69:12, 69:25, 217:8, 218:10, 244:20, 250:13, 351:23, 356:9, 358:4 288:22 70:3, 70:16, 76:17, 221:10, 221:17, 250:14, 252:13, learning [2] - 224:15, listen [5] - 31:6, 42:5, 76:21 252:19, 252:20, 221:21, 221:22, 225:9 42:6, 274:14, 339:6 **liability** [1] - 325:9 232:10, 232:11, 330:14, 332:14, listening [4] - 31:24, least [22] - 14:4, liable [1] - 9:17 337:5, 337:7 232:14, 232:15, 21:19, 28:9, 73:17, 38:14, 283:18, lie [1] - 278:7 241:7, 291:16, letters [1] - 430:10 114:6, 196:14, 283:19 lied [1] - 278:9 291:17, 291:22, level [52] - 34:4, 35:7, 199:2, 226:17, listing [1] - 239:9 life [3] - 14:6, 43:11, 292:5, 293:1, 294:8, 50:16, 50:21, 51:13, 227:1, 227:5, literally [1] - 54:8 51:15, 63:20, 66:12, 377:25 295:1, 295:5, 295:9, 240:19, 240:21, litigation [8] - 153:5, light [3] - 45:16, 296:4, 296:11, 67:24, 68:6, 113:11, 242:1, 243:1, 153:9, 153:11, 114:8, 114:12, 342:19, 343:5 296:13, 296:14, 248:19, 256:15, 195:22, 195:25, lighter [2] - 294:23, 296:21, 297:16, 114:15, 115:13, 273:14, 280:21, 196:7, 196:9, 346:6 405:4 297:24, 301:7, 116:5, 116:11, 344:9, 400:25, live [1] - 284:7

ument 28-230 <del>7 of 17</del>2age 29 08/04/15 <u> -ase 1:15</u> KIVID-JC 301:13, 301:21, 93:17, 94:8, 98:8, 454:11, 454:14 332:18, 335:24, **love** [1] - 294:23 339:12, 339:18, 301:25, 302:22, 98:10, 98:18, 99:4, look-see [1] - 287:16 **low** [5] - 116:5, 118:9, 302:24, 303:1, 105:16, 111:5, looked [55] - 15:20, 197:20, 239:11, 339:23, 340:2, 303:6, 303:13, 127:1, 145:4, 145:9, 23:8, 25:22, 61:8, 239:15 341:11 316:1, 316:8, 316:9, 160:12, 161:10, 115:11, 159:3, low-tech [1] - 197:20 main [10] - 8:9, 128:9, 323:25, 355:4, 162:12, 162:13, 200:9, 240:16, 141:20, 205:1, lower [18] - 16:20, 164:14, 166:3, 355:5, 355:11, 245:6. 245:16. 205:22, 206:20, 16:21, 16:22, 18:18, 172:2, 173:9, 355:17, 363:21, 418:7, 419:4, 426:2, 249:19, 287:7, 35:14, 96:12, 364:4, 364:5, 364:6, 173:11, 173:18, 296:13, 306:21, 115:22, 127:4, 442:2 181:3, 186:18, 364:13, 364:17, 312:5, 312:7, 130:19, 132:6, Maine [1] - 188:24 365:13, 365:17, 188:10, 193:8, 316:19, 317:11, maintain [1] - 407:13 171:25, 172:12, 366:15, 366:17, 198:16, 201:2, 328:6, 328:22, 278:3, 364:20, maintained [2] -366:22, 366:23, 201:15, 203:11, 329:23, 354:15, 382:20, 426:14, 297:23, 297:25 366:24, 367:3, 212:14, 224:18, 357:7, 360:8, 446:22 major [4] - 153:9, 367:7, 368:18, 224:19, 230:12, 362:17, 362:18, luminaries [1] -157:16, 157:21, 238:19, 239:3, 368:19, 368:25, 365:1, 365:2, 365:6, 152:21 219:10 369:1, 369:4, 369:5, 239:9, 239:24, 367:3, 368:5, 368:6, lunch [1] - 148:8 maker [1] - 433:23 372:14, 372:18, 239:25, 240:4, 369:6, 370:10, malfunction [1] -372:21, 375:1, 242:21, 245:13, 370:12, 376:15, M 355:15 375:5, 375:6, 245:22, 248:2, 379:17, 379:19, man [1] - 284:25 375:17, 376:6, 249:15, 252:11, 382:1, 388:6, 396:4, machine [2] - 304:24, manage [1] - 154:23 376:22, 377:1, 253:5, 258:16, 413:19, 415:16, 351:5 management [1] -377:13, 377:19, 258:17, 262:25, 417:2, 418:19, MacKinnon [11] -150:19 377:20, 377:21, 273:6, 277:7, 283:4, 421:10, 434:23, 330:14, 365:20, Management [2] -377:24, 377:25, 284:5, 286:20, 438:22, 439:5, 371:21, 372:7, 15:24, 150:18 378:4, 378:7, 287:16, 298:12, 441:13, 444:18, 372:24, 373:2, MANAGEMENT [4] -378:12, 378:23, 300:4, 300:19, 446:19, 446:21 373:3, 422:11, 2:15, 2:20, 4:13, 300:21, 303:16, 379:4. 379:11. looking [42] - 62:1, 426:6, 427:11, 448:3 5:20 392:1, 392:2, 392:3, 311:14, 315:16, 67:3, 163:2, 208:1, MacKinnon's [1] -Manager [2] - 155:13, 392:5, 392:10, 315:24, 323:10, 222:13, 223:14, 330:4 229:18 392:16, 403:1, 324:6, 326:1, 330:5, 241:3, 247:11, magnitude [7] manager [3] - 59:7, 403:2, 403:12, 331:17, 332:17, 253:16, 258:18, 199:23, 200:19, 60:16, 69:4 403:17, 404:6, 337:4, 337:24, 275:13, 281:4, 327:19, 354:22, managers [4] - 22:11, 404:7, 404:9, 338:10, 339:23, 287:6, 287:13, 357:6, 435:12, 53:24, 99:7, 147:6 340:2, 349:18, 404:11, 404:25, 287:17, 321:8, 438:13 MANARA [1] - 2:16 405:2, 405:12, 349:25, 353:13, 338:6, 338:8, mail [28] - 14:10, manifest [1] - 435:22 405:15, 405:19, 353:24, 355:3, 338:25, 346:14, 39:12, 52:8, 90:20, manner [4] - 31:1, 408:7, 408:8, 360:1, 361:24, 349:23, 360:6, 109:7, 109:17, 39:24, 250:11, 364:12, 365:13, 408:20, 410:4, 362:19, 363:5, 144:20, 149:18, 251:21 414:3, 414:4, 419:6, 365:14, 366:22, 363:11, 379:21, 277:7, 277:8, 277:9, Manning [1] - 66:3 421:18, 421:19, 368:23, 379:7, 380:5, 410:2, 277:17, 280:13, Manual [2] - 98:13, 424:11, 424:13, 379:18, 381:24, 410:12, 415:6, 281:11, 305:23, 250:20 424:22, 426:1, 383:19, 383:25, 417:19, 419:5, 306:1, 332:5, 333:9, manual [5] - 69:7, 426:17, 426:20, 392:7, 392:22, 423:21, 425:10, 333:15, 333:16, 250:21, 250:23, 446:25, 447:7, 393:1, 393:2, 394:1, 426:24, 427:2, 333:20, 333:22, 250:24, 251:3 447:9, 447:12, 394:25, 403:16, 434:22, 439:6, 334:23, 335:18, manually [1] - 54:7 447:14 404:21, 404:22, 442:20, 443:6, 337:10, 338:7 manufacturer [1] -405:2, 405:3, logs [2] - 43:20, 444:20, 452:11 mailed [1] - 281:2 426:17 149:23 405:16, 406:22, looks [5] - 175:9, mails [36] - 14:15, map [1] - 355:21 long-time [1] - 155:12 415:10, 415:22, 287:8, 364:16, 14:23, 14:24, 15:11, March [22] - 40:4, 417:1, 421:6, long-winded [1] -410:9, 417:24 39:8, 43:5, 61:20, 102:14. 102:20. 421:17, 421:23, 284:16 loosely [2] - 120:13, 61:25, 62:12, 78:4, 103:2, 103:8, 425:1, 428:14, loo [1] - 258:19 120:17 84:23, 85:14, 85:15, 103:11, 104:1, 438:21, 438:23, look [152] - 6:14, 8:21, **LORIN** [1] - 3:17 85:25, 86:9, 91:11, 104:16, 107:2, 11:17, 15:6, 15:10, 439:7. 441:17. Lorin [2] - 119:20, 91:17, 91:18, 92:2, 107:5, 107:7, 442:12, 443:12, 20:5, 20:6, 20:20, 270:4 144:16, 305:21, 107:10, 108:24, 446:18, 450:13, 29:15, 33:18, 39:16, Los [1] - 4:4 305:24, 310:13, 109:25, 110:10, 450:14, 451:5, 46:22, 62:2, 62:4, lose [2] - 74:2, 234:15 310:15, 310:21, 112:22, 138:12, 451:6, 451:9, 71:4, 78:3, 78:5, loss [1] - 351:6 311:3, 311:14, 333:17, 335:18, 452:25, 453:5, 86:17, 91:18, 91:24, lost [1] - 224:7 313:7, 329:9, 335:19, 336:8, 453:13, 454:10,

ument 28-230 <del>8**0f17</del>2</del>age 30</del>** 08/04/15 TO-KIMP-9C 336:16 336:3, 346:17, 325:24, 326:3, 393:17, 394:2, 418:13, 421:18, 333:1, 337:20, margin [2] - 436:20, 347:19, 356:20 394:6, 394:7, 399:5, 426:9, 426:11, 436:21 materials [6] - 110:12, 456:11 406:2, 411:2, 427:1, 427:7, 428:6, margins [1] - 165:20 110:16, 110:20, McNally's [5] - 38:9, 427:5, 428:4, 434:25, 437:21, 332:7, 346:11, 44:4, 92:6, 123:2, 432:10, 433:15, 447:20 marked [1] - 359:1 447:1 276:16 measurements [97] -MARLOW [2] - 4:14, 351:21 measured [84] - 62:23, math [9] - 184:18, McPhee [3] - 3:5, 159:4, 160:7, 161:9, 5:24 160:1, 160:2, 160:4, 161:24, 169:20, Marlow [30] - 33:23, 184:19, 188:23, 311:17, 312:11 227:17, 281:17, 219:18, 219:19, mean [60] - 15:5, 54:8, 160:9. 160:10. 174:23, 181:4. 219:20, 219:22, 57:21, 61:3, 61:25, 161:3, 161:4, 168:4, 181:9, 184:1, 185:9, 281:20, 282:17, 220:9, 220:11 168:5, 168:21, 186:20, 187:12, 75:12, 78:17, 87:23, 282:20, 283:5, 168:22, 172:9, 189:18, 190:12, Mathematical [1] -91:6, 96:19, 128:8, 283:15, 285:4, 172:11, 172:13, 190:14, 191:23, 412:22 140:3, 145:5, 285:20, 286:20, 174:8, 174:20, 192:4, 193:11, 286:25, 287:18, mathematical [3] -157:11, 164:5, 174:25, 175:2, 193:12, 193:13, 287:22, 287:25, 185:11, 288:11, 164:6, 178:1, 178:3, 329:12, 330:12, 364:20 183:3, 185:4, 176:14, 182:16, 193:18, 199:23, 186:21, 190:24, 182:18, 189:8, 204:22, 205:3, 330:22, 331:4, **MATTER** [1] - 1:3 189:16, 191:9, 206:4, 206:9, 192:8, 192:15, 342:9, 342:12, matter [33] - 10:25, 191:11, 191:13, 207:11, 211:15, 200:4, 201:7, 342:13, 342:25, 17:21, 28:20, 31:18, 192:21, 192:22, 212:20, 213:1, 240:17, 256:11, 343:10, 343:19, 40:12, 45:8, 46:19, 200:21, 214:4, 213:7, 216:3, 433:7, 439:11, 51:22, 86:18, 266:16, 267:2, 221:5, 222:24, 439:23, 440:17, 149:14, 155:2, 275:22, 276:1, 221:13, 222:16, 277:1, 291:21, 238:11, 254:14, 222:23, 224:5, 454:22 155:4, 181:14, 254:21, 290:24, 224:6, 224:11, 296:16, 314:7, Marlow's [2] - 286:10, 182:4, 234:12, 315:14, 324:18, 293:24, 314:21, 225:2, 239:25, 243:9, 258:4, 347:23 318:15, 318:19, 240:1, 240:5, 326:1, 338:3, Maryman [8] - 39:2, 266:16, 266:21, 251:23, 252:6, 360:14, 362:2, 318:21, 327:21, 43:6, 101:23, 102:1, 279:23, 312:24, 349:12, 351:21, 290:13, 292:22, 106:23, 149:17, 321:3, 323:14, 380:21, 389:17, 325:19, 332:25, 390:7, 396:7, 353:2, 353:18, 295:3, 318:7, 225:25, 226:3 400:20, 401:21, 353:20, 354:24, 328:20, 349:19, masked [1] - 361:3 344:2, 347:1, 356:23, 360:10, 404:3, 422:22, 358:5, 358:7, 365:14, 413:1, masking [1] - 360:23 362:10, 363:12, 361:14, 361:24, 423:20, 432:19, master [35] - 184:25, 433:17, 433:18, 365:3, 369:4, 370:2, 364:6, 368:24, 434:22, 436:11, 456:12 185:1, 185:7, 368:25, 369:10, 440:22, 445:6, 370:3, 382:2, matters [8] - 18:22, 185:10, 185:13, 388:11, 388:18, 372:5, 372:17, 18:25, 46:18, 46:24, 447:12, 451:16, 185:23, 185:25, 454:7, 454:9 388:20, 389:2, 375:14, 376:24, 201:9, 201:19, 186:1, 186:8, 187:7, 389:13, 389:22, 391:19, 391:24, meaning [1] - 262:14 334:15, 440:25 187:11, 216:2, 390:3, 390:22, 394:17, 394:20, meaningful [1] - 415:9 218:15, 219:24, McNally [56] - 34:13, 394:24, 397:1, 393:6, 397:20, 34:17, 34:19, 34:25, means [22] - 16:17. 221:19, 302:3, 415:23, 415:24, 397:3, 397:15, 18:18, 216:17, 353:17, 372:16, 44:1, 44:3, 81:22, 416:2, 416:8, 403:21, 405:18, 81:25, 82:19, 83:2, 218:9, 220:3, 222:7, 372:17, 372:19, 224:3, 325:5, 352:7, 417:21, 417:23, 408:10, 408:17, 374:14, 374:16, 83:5, 84:14, 84:16, 418:1, 418:4, 418:9, 409:14, 409:15, 361:23, 364:16, 92:7, 93:6, 95:14, 374:20, 374:21, 421:21, 422:5, 415:18, 415:20, 389:8, 389:12, 374:24, 375:2, 96:4, 123:19, 124:1, 449:24, 449:25 417:5, 418:10, 389:17, 389:18, 129:12, 130:20, 375:5, 375:9, measurement [41] -421:24, 423:22, 389:20, 389:21, 375:10, 375:15, 130:24, 131:6, 423:23, 423:24, 161:17, 164:22, 390:7, 390:23, 134:25, 135:7, 375:16, 377:15, 393:12, 408:22, 175:4, 176:2, 424:8, 426:23, 137:19, 139:19, 377:18, 426:21 176:22, 176:23, 426:25, 437:13, 410:18 139:20, 139:22, Master's [5] - 152:23, 180:10, 184:13, 438:20, 438:24, meant [6] - 115:8, 140:2, 140:7, 153:1. 156:15. 187:2, 191:25, 438:25, 441:17, 273:15, 274:3, 238:10, 260:7, 346:22, 412:10 192:6, 205:24, 443:7, 446:6, 274:5, 275:17, 324:4, 396:17, 407:7 Master's-level [1] -449:22, 450:14, 206:22, 212:10, 275:24, 275:25, measure [28] - 159:12, 153:1 213:19, 213:25, 454:12 184:10, 189:7, 276:13, 276:14, match [7] - 43:24, 216:9, 251:16, measures [3] -276:19, 276:22, 214:2, 214:6, 44:5, 44:6, 329:18, 366:1, 366:7, 375:8, 186:13, 217:21, 276:25, 306:6, 214:10, 215:20, 423:13, 431:22, 383:12, 387:15, 239:16 307:13, 307:20, 220:16, 241:5, 431:24 396:21, 397:10, measuring [8] - 189:9, 308:4, 308:8, 292:16, 292:17, Material [1] - 346:23 398:20, 404:20, 355:7, 386:15, 308:16, 310:20, 318:18, 328:13, material [7] - 44:3, 405:22, 411:1, 390:24, 393:9, 316:21, 316:25, 363:21, 393:14, 332:23, 335:24, 416:3, 418:12, 397:17, 416:6, 450:3

ument 28-230 08/04/15 <del>19 of 17</del>2age 31 mechanical [4] -100:23, 101:3, Mike [3] - 229:20, 389:3, 389:14, 213:13, 328:19, 101:7, 101:11, 328:21, 328:22, 346:11, 346:17, 389:17, 389:23, 230:11, 230:18 346:22, 351:4 101:16, 103:7, millimeter [1] - 393:22 390:4, 390:13, 329:1, 360:13, Mechanical [1] -104:3, 104:17, million [1] - 279:13 390:16, 390:17, 414:4, 419:4, 423:7, 391:20, 395:22, 347:14 107:17, 109:1, 423:8, 423:9, 424:3, millions [1] - 342:8 399:2, 399:14, 425:1, 425:5, 109:5, 109:15, Medalist [1] - 152:17 mind [13] - 7:25. 110:2, 110:7, 110:8, 400:15, 405:23, 425:10, 425:12, media [2] - 43:15, 20:21, 52:24, 85:18, 428:15, 428:17, 110:18, 110:22, 406:11, 406:12, 423:1 96:5, 115:9, 138:18, 111:3, 112:1, 112:9, 408:11, 408:18, 428:19, 428:22, meet [5] - 122:12, 154:8, 189:13, 428:24, 429:5, 112:13, 112:23, 189:15, 249:12, 409:9, 410:1, 122:13, 282:15, 112:24, 113:4, 418:11, 421:21 429:6, 429:10, 416:25, 432:2 297:21, 333:18 113:5, 125:6, 429:13, 429:19, minds [3] - 14:13, mischaracterizes [1] -Mellon [1] - 412:11 126:19, 126:23, 430:6, 442:15, member [8] - 195:1, 196:9, 196:11 443:22, 449:8, 127:4, 129:17, mischaracterizing [3] 195:4, 195:5, 195:7, mine [2] - 155:13, 130:3, 132:8, 132:9, 450:4, 450:8, 450:12 409:2 - 255:22, 255:23, 195:8, 210:24, 134:24, 135:4, models [2] - 151:14, 266:19 268:23, 412:18 minimum [9] - 35:7, 135:12, 135:15, misconduct [2] -349:20 66:12, 168:12, Member [1] - 98:14 135:18, 136:3, moisten [2] - 53:16, 247:9, 322:18 members [4] - 155:14, 174:6, 174:7, 136:17, 137:23, 120:6 misdemeanor [1] -195:12, 346:25, 175:20, 180:5, 138:4, 138:6, 138:9, moisture [8] - 171:19, 347:3 364:9, 376:2 151:23 138:13, 138:16, misidentified [1] -174:9, 178:19, membership [1] minimus [1] - 179:22 139:12, 139:15, 423:6 178:22, 178:24, Minnesota [7] - 23:10, 412:22 139:20, 140:11, 179:8, 180:19, 190:2 misinterpretation [1] -23:12, 41:10, memoranda [1] -140:19, 141:5, 426:5 moment [8] - 44:17, 244:15 245:24, 246:2, 141:7, 144:17, 138:25, 153:24, memorandum [1] -246:14, 255:13 misread [1] - 264:11 310:14, 310:16, 221:23, 289:16, misses [1] - 446:11 99:6 minor [3] - 36:15, 310:21, 311:4, missing [3] - 19:20, 350:12, 366:16, 36:16, 36:17 men [1] - 22:25 311:14, 313:7, 399:7 299:18, 430:7 minus [2] - 257:4, Menlo [1] - 346:1 317:2, 317:7, money [4] - 287:15, 399:4 misstatement [1] mention [6] - 23:6, 332:18, 335:24, 329:15, 342:6 390:1 minute [30] - 19:4, 26:7, 27:22, 64:3, 337:19, 337:23 monitor [1] - 393:22 mistake [8] - 185:22, 91:14, 91:15 39:1, 126:4, 170:2, messed [1] - 350:2 monitored [2] -221:19, 285:25, mentioned [23] - 8:20, 170:8, 171:12, met [9] - 82:2, 117:20, 352:13 365:19, 372:1, 171:16, 173:1, 21:11, 58:16, 61:20, 118:1, 239:20, Monitoring [1] - 398:6 422:25, 423:2, 175:8, 177:1, 177:2, 91:12, 111:13, 240:12, 282:1, monitoring [4] -423:13 201:8, 201:9, 117:3, 153:12, 282:2, 282:16, 352:8, 397:25, 398:9 292:13, 343:20, mistaken [1] - 297:18 154:10, 168:1, 434:13 389:10, 390:15, Montana [1] - 48:9 mistakes [2] - 423:3, 227:11, 277:19, methodology [3] month [2] - 68:19, 410:7, 410:10, 444:19 297:4, 306:14, 220:9, 348:20, 410:11, 410:13, 88:21 342:4, 350:9, mitt [1] - 56:23 381:20 months [4] - 103:20, 410:16, 410:18, mixed [4] - 371:6, 350:20, 350:21, methods [1] - 356:4 410:20 125:10, 125:14, 368:11, 371:24, 371:10, 419:3, 423:9 Miami [3] - 311:16, minutes [62] - 42:15, 125:21 425:21, 432:5, **mixup** [1] - 306:19 311:20, 322:10 433:24 Moore [4] - 155:11, 99:25, 125:5, 126:5, mobile [2] - 102:5, Michael [1] - 155:11 155:25, 156:7, 126:12, 129:24, mentioning [1] - 91:22 102:8 Michigan [2] - 47:15, 130:5, 130:22, 195:13 merchandise [2] mode [2] - 371:6, 151:5 131:1, 131:2, more-than-adequate 83:22, 84:3 371:10 middle [4] - 111:8, 131:11, 131:25, mere [1] - 16:22 [1] - 41:1 model [65] - 166:14, 131:18, 325:1, 369:9 132:19, 132:20, morning [24] - 6:5, 166:15. 166:18. message [16] might [25] - 20:14, 134:4, 134:6, 6:8. 6:11. 6:16. 6:23. 109:24, 111:11, 198:14, 198:16, 84:23, 142:4, 144:2, 148:19, 149:2, 198:18, 198:19, 7:16, 7:18, 47:11, 111:24, 125:25, 183:13, 208:6, 168:12, 168:15, 74:13, 74:14, 78:8, 198:21, 201:2, 129:15, 132:15, 262:22, 283:12, 168:24, 172:15, 92:9, 92:21, 100:8, 133:23, 135:6, 201:11, 201:14, 296:14, 308:17, 173:1, 173:2, 175:5, 100:9, 126:1, 201:17, 202:10, 140:15, 141:2, 312:4, 314:20, 177:6, 177:22, 126:18, 126:24, 202:11, 202:13, 275:17, 275:21, 317:4, 320:4, 179:6, 194:17, 131:19, 132:1, 202:15, 202:19, 316:23, 338:2, 327:18, 328:4, 226:9, 226:15, 133:23, 134:3, 202:22, 203:1, 338:3, 338:5 329:7, 329:16, 229:15, 233:8, 144:22, 261:9 203:6, 204:14, messages [75] -336:13, 357:5, 233:24, 236:20, most [47] - 16:2, 19:7, 43:20, 43:23, 43:24, 210:19, 210:20, 366:18, 387:24, 236:21, 344:25, 20:23, 31:5, 32:8, 210:24, 212:3, 76:4, 89:25, 92:7, 392:7, 439:2, 455:19 388:11, 388:20, 39:9, 64:13, 76:7, 212:17, 213:5, 100:11, 100:17,

ument 28-230 <del>00 of 17</del>2age 32 08/04/15 Page <del>case 1:15-c\</del> 76:24, 80:3, 162:10, 143:13, 145:21, 386:1, 392:16, 44:15, 45:14, 45:19, 27:6, 70:15, 85:9, 133:5, 238:4, 238:7, 162:17, 162:21, 145:22, 148:5, 395:16, 395:24, 61:19, 66:7, 91:17, 164:3, 173:21, 148:8, 148:11, 400:19. 400:22. 255:11, 321:23, 247:5. 248:23. 189:4, 199:11, 148:15, 148:17, 401:3, 401:4, 401:5, 340:15 249:6, 268:3, 282:4, 199:14, 199:17, 148:20, 148:22, 401:18, 401:21, NASH [39] - 2:22, 5:5, 283:10, 288:11, 401:25, 402:6, 288:20, 297:21, 199:22, 200:2, 148:23, 149:4, 28:17, 98:2, 148:17, 149:5, 150:1, 150:3, 402:8, 402:14, 309:7, 328:3, 200:3, 200:4, 148:22, 243:11, 222:22, 228:22, 402:17, 402:19, 339:22, 415:2 150:6, 150:13, 246:8, 247:19, 235:23, 235:24, 192:13, 194:14, 402:21, 408:1, 251:8, 255:7, needed [7] - 134:17, 408:2, 408:5, 409:7, 304:18, 317:14, 194:15, 194:17, 255:23, 259:14, 280:7, 282:13, 324:22, 325:3, 194:21, 198:23, 409:12, 409:16, 259:16, 260:17, 283:3, 309:4, 348:4, 330:7, 357:23, 203:15, 203:17, 411:13, 411:15, 265:9, 265:20, 348:11 363:7, 371:2, 374:1, 222:1, 225:17, 411:16, 411:17, 265:23, 266:18, needle [3] - 328:14, 225:18, 225:22, 411:23, 427:15, 374:5, 393:4, 268:5, 271:1, 351:9, 351:13 406:10, 407:21, 226:7, 226:14, 427:16, 427:19, 271:22, 278:23, needles [2] - 136:4, 408:10, 423:10, 226:20, 227:5, 436:8, 437:23, 279:2, 294:18, 350:8 426:20, 431:1, 227:9, 227:15, 438:1, 438:4, 439:9, 295:19, 298:7, needs [4] - 19:10, 431:10, 442:2, 227:17, 227:25, 439:10, 439:11, 298:10, 321:24, 41:18, 142:8, 179:18 455:12 233:15, 242:13, 439:13, 439:20, 322:1, 340:17, negative [1] - 18:16 242:18, 242:19, 448:11, 448:13, Most [1] - 409:8 342:22, 343:2, negatively [1] - 154:20 mostly [3] - 141:22, 243:11, 246:8, 449:13, 450:9, 343:13, 344:18, neighborhood [1] -247:16, 247:19, 453:25, 454:17, 344:22, 380:2, 141:25, 442:6 420:13 motivated [1] - 160:21 247:21, 249:16, 454:19, 454:21, 436:8, 457:1 nervous [3] - 78:21, 251:5, 251:8, 255:7, 455:23, 455:24, Nash's [2] - 44:22, motivates [1] - 178:12 79:1, 281:23 255:8, 255:10, 456:2, 456:3, 456:4, 200:5 motive [1] - 278:8 neutrally [1] - 188:10 255:23, 256:25, 456:13, 456:21, **NATIONAL** [6] - 1:1, move [12] - 124:21, never [58] - 11:8, 457:1, 457:2, 457:3 257:2, 259:13, 2:3, 2:15, 2:20, 3:3, 148:23, 149:6, 11:12, 11:13, 12:10, 259:14, 259:16, MS [1] - 198:25 149:15, 211:5, 3:9 12:17, 14:23, 15:17, 260:17, 260:18, multidisciplinary [1] -National [4] - 1:14, 211:6, 219:12, 18:2, 22:12, 22:19, 260:19, 260:21, 413.4 228:7, 256:20, 242:18, 272:1, 23:8, 25:7, 25:9, 260:25, 261:8, multiple [10] - 54:21, 385:24, 387:25, 257:20 34:16, 50:20, 50:24, 265:9, 265:20, 89:14, 188:19, **Natural** [2] - 353:18, 428:8 55:14, 61:11, 70:22, 265:23, 266:9, 231:24, 232:3, moved [5] - 8:4, 393:25 70:23, 71:15, 96:15, 266:18, 266:20, 351:16, 423:8, 429:3 129:8, 149:24, natural [19] - 17:1, 115:5, 115:7, 115:9, 268:5, 268:13, multiples [1] - 379:2 247:6, 290:14, 175:4, 328:8 116:7, 116:13, 271:1, 271:6, 271:7, multivariable [2] movement [2] - 12:2, 314:14, 351:17, 119:19, 119:20, 271:22, 271:24, 370:25, 371:5 373:23, 388:1, 382:7 121:12, 122:10, 277:16, 278:23, Murphy [1] - 152:17 388:14, 388:21, moving [1] - 165:23 130:15, 137:4, 279:1, 279:2, 279:4, must [6] - 92:17, 389:5. 389:10. MR [243] - 5:4, 5:5, 137:6, 137:9, 294:16, 294:17, 275:19, 275:25, 389:24, 390:6, 5:8, 7:4, 7:10, 7:12, 137:10, 139:22, 294:18, 295:11, 276:25, 316:25, 390:21, 392:19, 7:14, 7:15, 7:16, 229:23, 231:11, 295:19, 298:7, 403:14, 404:13, 334:10 237:3, 251:3, 275:3, 7:19, 28:17, 42:14, 298:8, 298:10, 408:20, 455:12 mutual [1] - 55:10 47:1, 47:3, 47:10, 275:4, 275:5, 318:2, 318:4, **naturally** [1] - 164:12 48:10. 52:6. 52:25. 295:22. 295:25. 321:18, 321:22, Ν nature [3] - 152:21, 334:24, 369:8, 62:7, 62:8, 65:20, 321:24, 322:1, 65:22, 66:4, 66:23, 337:2, 439:6 376:14, 378:24, 340:15, 340:17, N.W [2] - 2:21, 3:21 navigate [2] - 193:23, 442:19, 445:22, 89:8, 91:19, 97:14, 340:18, 340:20, name [15] - 47:12, 97:15, 97:16, 98:2, 193:24 449:7, 449:10, 342:15, 342:17, 81:24, 82:24, 84:5, NBA [1] - 322:12 98:5, 98:20, 98:22, 450:6, 453:13 342:18, 342:22, 93:8, 123:2, 150:14, 99:16, 100:2, 100:4, near [2] - 223:1, nevertheless [1] -342:23, 343:2, 150:16, 228:1, 100:7, 104:6, 438:17 182:1 343:3, 343:13, 261:10, 281:12, 105:13, 111:20, nearly [3] - 55:7, New [35] - 1:16, 2:4, 343:14, 343:15, 345:9, 373:14, 112:10, 112:15, 417:14, 419:12 2:11, 2:12, 2:16, 343:20, 343:21, 411:24, 439:21 112:18, 112:19, necessarily [3] -2:21, 3:10, 3:16, 6:1, 343:23. 343:24. named [2] - 84:15, 124:20, 135:25, 76:20, 286:1, 433:21 24:3, 47:7, 47:19, 344:16, 344:18, 307:5 136:2, 136:7, necessary [4] - 7:1, 61:13, 61:16, 82:8, 344:19, 344:22, 136:11, 136:16, names [1] - 82:15 7:12, 14:19, 343:18 150:10, 227:22, 344:23, 344:25, **narrowly** [1] - 335:25 136:20, 138:25, 261:5, 280:19, Ned [2] - 311:18, 345:2, 345:8, 373:8, 139:2, 139:5, 139:7, Nash [13] - 42:16, 280:24, 300:9, 335:5 373:10, 380:2, 143:8, 143:10, 42:21, 44:8, 44:13, 330:6, 330:19, need [21] - 7:9, 20:10, 380:3, 385:25,

ument 28-230 <del>51 of 17</del>2age 33 08/04/15 Case 1:15-cv FO-KIMIR-1C 345:5, 411:20, 234:10, 237:23, 221:10, 221:17, 404:11, 404:25, 173:7, 173:9, 215:5, 439:17, 457:8 238:25, 248:21, 221:22, 232:11, 405:2, 405:12, 225:17, 225:18, new [30] - 7:22, 9:19, 249:15, 253:25, 232:15, 241:7, 408:7, 408:8, 247:17, 258:3, 40:3, 45:24, 46:17, 258:14, 261:21, 291:17, 291:22, 408:20, 410:4, 260:18, 269:20, 49:9, 53:18, 68:23, 261:24, 263:11, 293:1, 294:8, 295:5, 414:4, 419:6, 304:10, 310:8, 263:15, 264:1, 296:4, 301:7, 373:8, 408:1, 439:9, 421:19, 426:17, 69:12, 69:21, 70:15, 264:12, 265:3, 301:13, 301:21, 447:7, 447:9, 447:14 439:10, 448:11, 70:24, 76:13, 88:11, 266:8, 266:11, 301:25, 303:1, 455:23 88:19, 105:19, non-significance [2] -266:15, 266:21, 303:6, 316:9, 106:8, 106:12, 435:4. 435:15 notice [25] - 9:4, 106:25, 108:17, 266:25, 267:15, 323:25, 355:5, none [18] - 12:3, 21:14, 21:15, 21:21, 218:21, 219:5, 270:7, 270:17, 355:11, 356:12, 13:12, 16:4, 18:19, 22:2, 22:4, 26:20, 270:18, 271:11, 364:4, 365:13, 219:7, 219:8, 26:24, 27:7, 27:8, 44:1, 90:8, 136:5, 271:12, 271:16, 366:15, 366:17, 27:10, 32:6, 32:22, 255:21, 377:17, 144:8, 174:21, 366:22, 366:24, 279:16, 298:2, 35:9, 35:24, 36:11, 378:17, 379:5, 239:11, 239:15, 379:7, 401:6 309:18, 310:14, 367:3, 367:7, 45:21, 46:1, 46:23, 240:18. 240:19. NEW [1] - 1:24 311:2, 311:3, 321:1, 368:19, 369:1, 321:9, 323:18, 72:14, 78:7, 257:24, news [1] - 142:14 321:8, 321:11, 369:5, 375:1, 375:6, 356:8, 356:18, 335:10, 355:16, 322:10, 324:16, 377:21, 378:23, 451:24 381:22 next [59] - 12:22, 51:1, 379:4, 392:1, 392:5, 324:23, 325:13, nonscientific [1] noticed [1] - 13:4 58:2, 58:5, 61:18, 331:18, 337:4, 392:10, 392:16, 16:15 noting [1] - 242:11 71:22, 72:5, 79:18, 339:13, 339:14, 403:1, 403:12, 92:13, 102:17, nonsignificant [2] notion [3] - 422:25, 343:25, 344:3, 403:17, 404:6, 127:4, 131:2, 131:8, 425:22, 425:25 427:6, 453:8 134:23, 148:22, 344:7, 344:14, 404:7, 404:9, normal [8] - 77:14, November [9] - 24:7, 344:23, 376:22, 404:11, 404:25, 102:20, 103:2, 150:6, 159:19, 83:13, 88:4, 98:5, 376:24, 378:11 405:2, 405:12, 160:12, 161:10, 108:10, 123:11, 103:8, 103:10, NFL's [2] - 10:25, 408:7, 408:8, 162:12, 163:14, 255:4, 284:7 103:23, 104:15, 45:10 408:20, 410:4, 112:21, 248:4 166:3, 169:2, 169:3, normally [5] - 68:13, NFLPA [24] - 7:20, 414:4, 419:6, 174:2, 174:10, 72:2, 72:22, 80:18, nuanced [1] - 288:7 175:13, 176:24, 62:3, 64:18, 78:6, 421:19, 426:17, 8:88 nub [1] - 53:12 101:22, 104:6, 435:4, 435:15, 177:3, 181:13, Northwestern [1] nubby [1] - 53:10 447:7, 447:9, 447:14 104:12, 106:23, 183:24, 184:15, 155:12 nubs [2] - 53:10, 150:6, 226:2, 226:3, non-factors [1] -187:5, 187:14, Notary [8] - 47:6. 53:11 356:12 226:4, 239:18, 237:17, 242:5, 150:9, 227:21, Number [10] - 111:9, 248:2, 252:11, non-logo [73] - 17:11, 248:1, 258:23, 261:4, 345:4, 111:19, 162:6, 260:25, 279:22, 253:13, 254:5, 161:25, 184:22, 411:19, 439:16, 162:8, 176:10, 255:11, 300:20, 185:2, 186:7, 186:9, 280:19, 281:2, 457:7 176:11, 222:2, 281:3, 282:16, 334:12, 334:13, 186:12, 186:24, **NOTARY** [1] - 1:24 222:13, 365:17, 335:6, 359:16 188:1, 217:8, 293:22, 333:5, **note** [16] - 8:13, 8:24, 367:16 334:4, 334:5, 336:6, nice [1] - 333:18 221:10, 221:17, 11:5, 21:9, 21:10, number [51] - 14:22, 221:22, 232:11, 342:17, 343:15, nickname [1] - 92:6 27:14, 27:21, 28:12, 43:5, 44:5, 58:12, 351:8, 351:17, night [9] - 67:5, 67:9, 232:15, 241:7, 97:17, 160:20, 62:3, 83:15, 86:5, 355:3, 385:24, 71:6, 71:11, 71:12, 291:17, 291:22, 226:7, 237:7, 242:9, 88:23, 88:25, 89:6, 293:1, 294:8, 295:5, 409:12, 411:16, 71:13, 92:16, 93:5, 254:7, 334:6, 337:10 89:7, 89:11, 103:19, 296:4, 301:7, 428:14, 451:1 306:24 noted [3] - 76:2. 114:16, 114:24, 301:13, 301:21, NFL [94] - 2:10, 4:8, nine [3] - 131:11, 226:15, 327:5 114:25, 115:10, 4:13, 5:13, 5:20, 9:5, 301:25, 303:1, 152:15, 152:25 notes [15] - 8:21, 115:12, 116:1, 14:4, 18:4, 20:12, 303:6, 316:9, nine-year [2] - 152:15, 79:19, 238:25, 124:6, 126:16, 20:24, 21:1, 22:3, 323:25, 355:5, 152:25 244:14, 258:15, 129:11, 161:17, 355:11, 364:4, 24:4, 25:10, 28:5, Nobel [3] - 152:16, 176:13, 183:10, 259:1, 298:14, 365:13, 366:15, 40:13, 46:6, 47:16, 188:21, 330:15 298:18, 299:3, 184:10, 190:20, 366:17, 366:22, 47:21, 48:20, 58:18, nobody [5] - 16:12, 190:24, 191:1, 299:20, 320:17, 366:24, 367:3, 62:3, 65:12, 66:11, 235:2, 235:9, 291:3, 320:20, 321:10, 208:19, 224:10, 367:7, 368:19, 77:4, 87:13, 87:15, 320:4 293:14, 299:9, 395:18, 457:10 87:18, 99:18, 369:1, 369:5, 375:1, noise [1] - 413:17 304:4, 319:7, noteworthy [1] -375:6, 377:21, 104:12, 105:10, nominal [1] - 426:23 339:14, 339:16, 152:14 378:23, 379:4, 111:5, 113:10, non [76] - 17:11, 350:16, 361:11, nothing [28] - 9:12, 392:1, 392:5, 113:13, 113:21, 161:25, 184:22, 363:15, 363:20, 13:8, 15:5, 26:15, 392:10, 392:16, 114:5, 139:6, 185:2, 186:7, 186:9, 364:18, 365:18, 42:25, 85:2, 97:21, 403:1, 403:12, 191:11, 218:1, 374:12, 387:1, 186:12, 186:24, 139:1, 145:21, 403:17, 404:6, 226:8, 231:7, 234:2, 390:9, 415:11, 188:1, 217:8, 145:22, 171:13, 404:7, 404:9,

ument 28-230 <del>.**52 of 17</del>2</del>age 34</del>** 08/04/15 case 1:15-cv .0-KMB-JCI 415:12, 446:4 413:17, 431:21, 230:15, 230:22, 196:9, 209:9, one-structured [3] -442:8 232:13, 248:9, 216:15, 218:17, **numbers** [18] -428:24, 429:5, 161:20, 161:21, observing [1] - 119:23 249:2, 251:19, 220:9, 223:5, 226:9, 429:10 163:11, 219:20, obtained [1] - 225:9 251:25, 252:3, 229:6, 230:16, ones [14] - 76:16, 241:10, 241:12, obvious [1] - 415:17 252:4, 252:5, 254:9, 232:2, 232:3, 232:5, 94:14, 140:23, 237:6, 237:8, 254:13, 254:20, 283:20, 283:21, **Obviously** [1] - 437:4 141:8, 148:2, 310:14, 391:7, 237:11, 238:21, 287:6, 287:8, 152:14. 154:14. obviously [20] - 6:20, 407:16, 415:24 239:18, 240:13, 287:13, 287:17, 6:23, 7:1, 14:6, 240:5, 291:10, 240:15, 240:21, 320:12, 329:18, 20:23, 28:20, 31:21, officials' [5] - 121:25, 345:24, 356:9, 240:23, 240:25, 364:22, 365:7, 122:5, 123:20, 381:12, 384:22, 58:25, 61:24, 76:10, 371:2, 438:18 358:2, 406:8 241:23, 243:22, 437:2 79:1, 90:19, 95:10, 246:19, 246:20, Numbers [1] - 104:12 officiating [2] op [1] - 330:19 123:11, 135:18, 247:25, 249:14, Numeral [1] - 124:24 192:16, 229:2 op-ed [1] - 330:19 137:18, 152:20, 249:18, 251:17, numeral [1] - 327:5 416:7, 444:19, often [1] - 88:8 open [3] - 7:25, 20:21, 251:25, 253:9, numerical [1] - 418:2 447:12 oily [1] - 55:7 455:19 255:18, 256:12, old [10] - 45:25, 46:2, numerous [3] - 37:25, occupation [2] -**OPENING** [1] - 5:3 256:15, 258:18, 53:4, 55:12, 56:25, 76:14, 378:11 228:5, 261:12 opening [6] - 7:13, 260:16, 264:9, 69:3, 128:6, 379:8, **NW**[1] - 3:3 occur [1] - 406:19 8:3, 61:19, 100:11, 269:23, 270:10, occurred [20] - 10:9, 379:16, 380:6 200:5, 315:17 271:13, 272:16, 0 32:20, 108:22, older [6] - 219:4, operated [1] - 313:3 273:1, 274:1, 111:12, 167:9, 219:5, 296:12, operating [1] - 308:21 275:15, 283:22, oath [6] - 11:11, 379:18, 379:21, 167:21, 206:5, Operations [10] - 18:7, 149:13, 255:20, 288:18, 288:23, 380:5 208:24, 208:25, 24:13, 24:22, 25:1, 289:2, 289:8, 379:20, 379:25, 210:15, 357:24, once [15] - 50:25, 25:7, 228:7, 228:10, 290:16, 291:11, 385:15 358:1, 385:5, 385:7, 52:1, 116:13, 231:8, 249:25, 294:20, 294:24, object [4] - 265:9, 393:4, 408:10, 125:19, 125:21, 250:20 296:5, 298:7, 266:5, 266:18, 268:5 408:18, 408:19, 148:1, 171:15, operations [1] -299:22, 301:13, objection [10] - 8:7, 172:13, 177:14, 409:9 228:13 301:18, 304:18, 136:7, 150:1, 252:20, 332:8, occurs [1] - 174:20 opinion [11] - 16:12, 307:9, 315:1, 243:11, 246:8, 401:19, 441:25 October [5] - 52:5, 264:24, 323:3, 315:19, 316:14, 255:23, 265:12, one [208] - 6:10, 8:13, 52:12, 62:11, 62:13, 323:11, 324:7, 317:15, 322:6, 271:22, 278:23, 70:13 12:11, 13:3, 14:4, 324:8, 324:9, 323:4, 325:1, 330:7, 380:2 15:13, 15:24, 16:2, **OF** [3] - 1:3, 1:24 324:15, 374:22, 335:11, 338:2, Objection [2] - 436:8, 16:19, 18:21, 18:22, offense [7] - 26:11, 374:23, 452:4 343:21, 343:24, 450:9 20:23, 21:11, 21:16, opinions [2] - 264:18, 26:13, 26:20, 349:7, 350:20, objections [1] - 7:9 236:13, 384:17, 22:3, 22:18, 25:13, 267:3 352:5, 352:15, 26:17, 30:15, 41:17, objective [3] - 284:13, 385:2, 385:9 opportunity [5] - 7:20, 361:19, 365:19, 323:11, 348:16 42:1, 42:16, 45:15, offer [2] - 182:12, 30:1, 211:10, 221:7, 367:14, 368:14, 49:11, 49:20, 52:3, objectivity [1] -190:15 448:2 369:15, 370:24, 348:17 52:9, 54:7, 54:23, offered [1] - 98:6 opposed [7] - 77:14, 371:24, 374:19, 56:7, 56:15, 60:21, obligated [1] - 334:12 office [10] - 128:19, 77:15, 81:6, 362:10, 376:23, 378:20, 64:5, 66:7, 75:15, obligation [1] - 15:18 133:11, 146:20, 368:19, 387:3, 378:23, 379:1, 77:10, 80:7, 84:14, observation [5] -146:21, 146:23, 435:18 380:25, 381:2, 91:7, 91:20, 93:18, 252:8, 271:8, 247:7, 247:14, opposite [3] - 292:8, 381:5, 381:9, 93:19, 94:9, 94:10, 287:23, 370:8, 447:4 248:13, 333:20, 422:7, 430:25 381:11, 381:15, 94:12, 94:14, 97:12, observations [15] -345:25 **Ops** [1] - 307:7 385:24, 386:22, 100:15, 100:21, 191:2, 224:12, official [9] - 192:12, options [3] - 188:1, 387:3, 387:25, 101:2, 124:16, 225:7, 251:22, 192:15, 236:6, 188:3, 315:19 390:15, 395:14, 126:4, 129:8, 130:5, 274:5, 287:1, 350:4, 241:5, 319:13, oral [1] - 268:17 396:1, 397:6, 130:13, 135:10, 368:15, 390:10, 319:23, 388:12, orally [1] - 269:2 416:19, 416:25, 135:17, 138:25, 407:17, 422:15, 389:4, 390:5 oranges [2] - 361:21, 421:7, 421:19, 139:19, 143:10, 437:5, 437:8, Official [3] - 160:2, 373:1 426:14, 426:18, 144:15, 144:17, 437:15, 439:7 160:3, 191:11 order [37] - 17:9, 427:3, 428:20, 144:23, 152:14, observe [1] - 146:11 officially [1] - 412:17 20:16, 41:12, 428:24, 429:5, 153:9, 153:22, observed [13] officials [29] - 35:10, 176:18, 211:14, 429:10, 430:16, 157:18, 160:20, 174:22, 205:4, 60:3, 61:7, 160:4, 211:21, 212:9, 432:2, 433:11, 161:6, 161:16, 205:25, 206:11, 161:2, 161:19, 212:17, 212:20, 436:24, 437:2, 162:1, 171:20, 212:18, 213:6, 189:5, 190:7, 213:1, 213:4, 213:7, 437:12, 437:15, 180:7, 180:9, 186:4, 221:12, 270:6, 191:22, 192:20, 213:18, 230:15, 437:20, 438:1, 188:4, 189:4, 195:6, 294:3, 355:25, 222:25, 229:7, 243:8, 282:1, 290:9, 441:12, 445:7, 451:1

ument 28-230 <del>|**3 of 17</del>2</mark>age 35</del>** 08/04/15 **Case 1.15** 344:23, 369:21, overinflated [3] - 94:3, 111:16, 111:17, 247:12, 247:13 114:25, 115:23, 116:23, 129:7, 397:21, 407:13, 115:18, 124:23, 115:17, 120:9 paragraph [31] - 28:3, 415:21, 415:23, 36:2, 102:5, 102:11, 133:4. 147:20. overlap [5] - 403:11, 125:24, 126:15, 416:3, 416:7, 404:19, 409:17, 127:1, 127:2, 129:4, 102:18, 107:1, 211:19, 218:22, 419:12, 425:3, 409:19, 409:22 129:10, 129:14, 111:10, 111:23, 228:24, 230:14, 129:21, 130:19, 242:23, 243:20, 425:4, 425:9, 200:16, 205:20, overlaps [1] - 405:20 131:8, 131:18, 245:11, 259:25, 425:12, 425:13, 224:20, 225:1, overlay [2] - 358:21, 132:6, 132:17, 425:20, 425:22, 242:21, 242:22, 276:9, 284:9, 382:25 429:21, 431:15, 132:18, 133:22, 242:23, 263:10, 323:17, 346:9, overreact [1] - 248:24 401:5, 440:18, 438:7 139:10, 144:19, 273:10, 300:23, overruled [2] - 452:5, orderly [2] - 251:14, 162:14, 200:15, 327:1, 327:4, 449:11 455:4 201:12, 205:19, 251:17 327:22, 334:4, particularly [10] oversee [1] - 6:20 208:19, 208:21, 334:5, 334:19, 6:13, 8:11, 12:10, ordinarily [1] - 25:3 overseeing [2] -222:1, 222:13, 337:9, 348:25, 16:3, 158:1, 191:20, ordinary [1] - 108:15 228:13, 262:3 222:19, 224:13, 355:11, 355:22, 327:13, 334:14, organization [5] overstating [1] - 444:7 224:18, 224:19, 63:24, 97:7, 143:5, 356:15, 356:24, 345:24, 346:15 overturn [1] - 46:11 224:23, 225:1, 357:17 parties [2] - 98:7, 151:10 overturning [1] - 7:23 238:20, 239:3, 456:5 parameters [4] organize [1] - 161:8 overturns [1] - 21:20 240:2, 258:16, 184:5, 205:10, partly [3] - 57:9, organized [3] overview [1] - 153:13 259:3, 262:25, 362:16, 362:17 194:4, 194:5 157:14, 161:14, own [15] - 73:25, 263:9, 264:7, 272:2, pardon [2] - 144:17, 162:5 partner [1] - 261:13 156:1, 156:17, 273:8, 273:9, oriented [2] - 49:24, 144:21 partners [1] - 324:13 201:11, 201:13, 277:10, 286:3, Park [5] - 1:15, 2:3, parts [2] - 41:19, 347:16 206:17, 220:9, 287:3, 298:12, 2:15, 3:10, 346:1 220:7 original [9] - 18:7, 223:10, 232:24, 298:22, 298:23, parroted [1] - 280:6 PASH [1] - 2:5 68:20, 70:12, 237:21, 244:14, 298:24, 300:19, 151:24, 152:6, parse [2] - 41:19, Pash [21] - 261:20, 246:15, 285:10, 300:21, 318:10, 41:21 262:3, 262:5, 262:7, 210:18, 210:20, 346:10, 442:10 326:23. 326:25. Part [1] - 449:20 210:24, 337:13 263:15, 264:2, owners [2] - 22:10, 327:4, 330:14, part [40] - 15:8, 34:7, originally [2] - 395:4, 264:10, 265:1, 250:23 333:7, 333:13, 50:10, 82:10, 265:5, 266:1, 266:7, 415:3 333:14, 337:25, 118:15, 138:3, otherwise [2] -267:6, 267:7, P 350:15, 350:16, 138:6, 151:20, 267:10, 267:25, 265:11, 315:12 353:7, 354:12, 268:7, 268:16, ought [1] - 305:25 p-factor [1] - 369:17 152:8, 152:10, 355:10, 367:15, 174:14, 182:18, 269:8, 269:14, ourselves [1] - 348:11 p-value [17] - 166:6, 382:23, 388:8, 182:20, 200:2, 310:2, 310:8 outcome [12] - 186:3, 166:23, 168:13, 392:7, 397:11, 212:12, 218:14, Pash's [3] - 265:25, 215:22, 220:2, 177:12, 177:14, 402:23, 403:25, 219:1, 219:15, 266:12, 269:14 220:3, 222:10, 177:23, 177:24, 408:6 286:14, 286:18, pass [1] - 150:4 284:12, 363:23, 179:9, 179:11, **PAGE** [1] - 5:3 315:23, 320:6, 364:25, 365:10, passed [1] - 370:4 222:5, 222:7, Page [2] - 212:13, 347:7, 352:1, 362:8, passer [1] - 135:3 365:11, 365:16, 418:20, 419:20, 430:4 384:11, 395:14, 447:3 420:4, 420:15, passing [1] - 73:18 pages [4] - 104:15, 396:10, 396:14, outdoor [1] - 447:20 424:23, 425:23 past [10] - 23:7, 60:22, 299:5, 320:24, 338:1 396:15, 396:24, 77:18, 84:21, 196:3, outer [1] - 409:23 p-value's [2] - 166:13, paid [7] - 158:5, 403:9, 417:1, outfit [1] - 281:9 420:12 196:12, 210:25, 278:21, 278:25, 421:16, 423:5, 249:20, 334:8, p-values [6] - 166:19, outraged [1] - 280:21 279:5, 279:6, 426:4, 431:5, 442:2, 376:22 outset [2] - 8:14, 381:24, 417:15, 279:14, 342:9 449:21, 455:3 path [1] - 165:21 348:6 418:24, 419:13, pair [1] - 62:11 part-time [1] - 82:10 432:14 patience [1] - 457:3 outside [12] - 28:6, pairs [1] - 225:2 partially [1] - 206:24 **p.m** [15] - 111:12, Patrick [1] - 47:13 164:8, 164:9, 221:6, Panda [3] - 62:12, participate [3] -111:25, 112:1, Patriots [131] - 24:7, 234:16, 292:15, 62:16, 277:19 237:22, 452:2, 29:25, 31:18, 33:3, 149:3, 194:19, 292:19, 307:9, panel [1] - 88:16 456:25 307:18, 309:1, 260:24, 345:1, 47:19, 47:23, 48:1, panels [1] - 196:8 participated [3] -322:20, 369:13 395:25, 457:5 51:6, 51:12, 51:18, panthers [2] - 246:13, 10:15, 273:23, 287:1 packers [4] - 248:5, 60:8, 61:7, 63:24, outstanding [1] -259:25 particle [5] - 440:20, 254:12, 254:18, 74:10, 75:2, 82:5, 109:4 paper [7] - 59:9, 440:23, 448:19, 254:24 97:7, 118:25, overall [8] - 41:17, 59:20, 59:24, 119:4, 448:24, 449:3 page [93] - 26:2, 62:4, 121:13, 121:21, 162:16, 286:1, 153:17, 153:18, particular [28] - 30:9, 395:15, 396:16, 78:5, 91:25, 94:8, 122:4, 129:1, 143:5, 264:21 30:20, 49:23, 54:23, 94:13, 105:16, 144:9, 145:9, 402:11, 404:22, paperwork [2] -55:8, 80:22, 88:12, 111:7, 111:8, 160:15, 160:22, 405:17

ument 28-230 <del>54 of 17</del>2age 36 08/04/15 161:15, 168:16, 175:2, 176:13, 123:18, 138:11, 347:22, 350:9, 450:3 176:19, 180:10, 176:15, 176:22, 155:15, 261:13, 376:8, 437:12, periodically [1] -189:25, 199:25, 178:15, 181:5, 262:14, 263:13, 445:5, 446:2, 456:21 87:10 200:20, 215:25, 181:7, 182:11, 263:14, 264:17, people's [3] - 90:25, permeability [2] -216:8, 217:2, 183:14, 183:15, 264:23, 267:5, 196:9, 196:10 351:18, 351:21 183:22, 184:1, 217:10, 217:13, 268:7, 270:15, per [2] - 113:23, 441:7 permissible [3] -185:15, 185:18, 217:23, 218:6, 271:9, 278:21, percent [31] - 165:2, 115:22, 118:9, 221:12, 222:23, 187:17, 189:7, 280:11, 280:20, 166:21, 179:13, 121:12 192:22, 193:11, 284:18, 285:8, 229:12, 236:1, 181:21, 222:8, permission [5] -193:13, 197:8, 300:24, 307:17, 236:6, 236:19, 222:9, 307:13, 308:11, 308:18, 238:2, 243:2, 248:5, 200:16, 205:5, 315:6, 327:5, 347:6, 309:8, 354:17, 308:23, 309:6, 252:15, 252:16, 206:11, 208:23, 348:8, 348:23, 369:18, 369:24, 309:12 262:10, 263:16, 215:15, 215:20, 357:25, 384:9, 375:10, 375:20, permitted [1] - 335:4 406:5, 407:4, 408:9, 269:19, 273:14, 216:20, 217:15, 386:8, 386:9, person [28] - 9:14, 273:17, 293:4, 218:24, 219:3, 408:17 419:21, 419:22, 9:15, 14:9, 20:4, 222:24, 225:2, 293:8, 293:9, **PAUL** [1] - 3:15 420:6, 420:7, 24:18, 24:23, 29:14, 293:16, 293:20, 235:13, 236:23, pause [2] - 157:25, 420:16, 420:17, 29:21, 37:21, 82:4, 293:24, 294:2, 239:10, 240:17, 224:23 420:18, 432:12, 82:5, 84:1, 130:17, 253:2, 287:8, 289:5, pay [2] - 162:10, 192:9 294:3, 294:7, 295:4, 432:13, 432:15, 144:7, 154:5, 295:8, 295:22, 290:13, 318:22, 432:17, 432:23, payment [2] - 196:18, 154:13, 161:20, 296:3, 297:3, 297:5, 318:23, 319:14, 196.21 433:12, 433:15, 188:17, 228:22, 300:9, 307:8, 328:1, 350:22, pays [1] - 266:25 451:4 285:1, 297:12, 307:19, 310:23, 358:24, 362:4, perfect [1] - 294:21 peace [1] - 330:15 303:20, 307:9, 313:14, 314:4, 363:22, 365:10, perfectly [4] - 302:1, 309:9, 309:10, pedantic [1] - 446:10 314:24, 320:8, 367:23, 368:18, 302:4, 316:10, 444:5 penalties [1] - 151:23 334:7, 338:18 327:10, 329:6, 369:4, 370:1, penalty [3] - 15:16, perfectly-calibrated personal [9] - 14:6, 373:24, 376:16, 329:7, 330:13, [1] - 302:4 25:6, 109:19, 23:15, 28:8 332:3, 332:6, 332:8, 382:3, 382:15, perform [4] - 50:14, 228:20, 274:5, pending [1] - 344:16 332:12, 340:12, 382:16, 382:21, 336:2, 349:9, 352:1 287:1, 323:3, 324:7, people [77] - 15:20, 349:5, 354:19, 384:24, 387:2, performed [11] -324:15 16:2, 16:4, 22:24, 354:23, 356:5, 387:12, 387:17, Personal [2] - 9:22, 23:1, 25:3, 25:5, 158:9, 158:10, 356:11, 358:5, 388:2, 388:4, 198:2, 198:7, 22:16 61:21, 80:3, 80:4, 388:10, 388:18, 358:15, 362:11, 215:16, 224:16, personally [4] - 124:1, 82:9, 82:10, 82:20, 364:8, 364:14, 388:19, 389:2, 349:14, 368:2, 137:3, 243:23, 83:11, 83:23, 84:4, 389:9, 389:22, 368:7, 376:1, 376:4, 412:25, 413:7, 89:6, 123:10, 154:4, 246:24 376:8, 383:4, 383:6, 390:2, 390:22, 413:14 154:11, 154:14, personnel [3] - 22:24, 383:15, 385:1, 391:25, 396:2, 154:17, 155:15, perhaps [2] - 145:22, 118:25, 121:14 385:13, 386:9, 396:4, 398:18, 155:17, 188:19, 325:9 perusing) [1] - 287:3 403:7, 404:20, 388:9, 389:1, 190:13, 191:25, period [48] - 13:25, Peterson [2] - 21:18, 396:10, 396:18, 406:3, 406:7, 194:11, 200:3, 39:14, 39:19, 77:20, 45:24 398:14, 399:16, 408:10, 408:17, 209:3, 210:11, 79:20, 89:10, 103:8, petition [5] - 64:16, 399:17, 403:18, 409:14, 409:20, 103:10, 103:14, 227:1, 243:24, 64:19, 64:20, 64:24, 403:21, 419:9, 409:23, 414:8, 244:7, 244:25, 103:19, 104:4, 65:20 419:15, 419:24, 415:24, 417:22, 104:18, 104:20, 252:5, 276:20, Peyton [3] - 64:11, 420:1, 424:7, 418:9, 418:13, 281:21, 282:13, 107:16, 107:18, 66:1, 66:2 424:10, 424:12, 418:14, 418:16, 289:15, 292:13, 112:4, 112:5, **Ph.D** [9] - 151:20, 432:21, 438:24, 419:19, 421:18, 294:12, 302:25, 112:21, 113:19, 188:22, 284:24, 450:22, 455:2 421:20, 421:24, 303:21, 304:4, 139:16, 142:11, 286:18, 346:22, Patriots' [140] - 11:22, 423:23, 434:24, 306:4, 306:13, 142:12, 144:17, 347:9. 347:15. 16:20, 18:24, 34:3, 438:19, 438:21, 308:22, 309:1. 144:18, 152:15, 347:19, 412:10 144:10, 155:7, 438:25, 439:7, 152:25, 168:8, 310:11, 310:23, pharmaceuticals [1] -442:23, 446:23, 159:4, 159:12, 311:18, 314:21, 170:8, 179:5, 153:17 447:1, 449:17, 159:16, 160:1, 315:14, 324:19, 215:13, 236:2, phenomena [2] -449:24, 450:13, 160:9, 161:4, 325:12, 325:14, 366:7, 372:4, 377:9, 403:14, 404:13 162:22, 163:7, 450:15. 455:8 330:23, 331:4, 379:3, 383:15, philosophy [1] -163:12, 163:17, pattern [2] - 87:1, 337:19, 337:22, 387:15, 392:6, 445:25 164:4, 164:7, 167:9, 431:21 338:20, 340:6, 392:9, 398:24, phone [96] - 37:20, 167:20, 168:4, patterns [1] - 86:25 342:21, 342:24, 398:25, 400:2, 39:18, 40:3, 40:4, 168:21, 169:20, Paul [37] - 100:16, 343:4, 343:8, 400:7, 408:11, 42:1, 43:8, 43:20, 171:8, 171:25, 100:22, 109:4, 343:16, 347:2, 409:10, 440:11, 43:21, 44:10, 44:24, 174:9. 174:25. 110:1, 113:1, 113:6,

**55 of 172**age 37 ument 28-230 Jase 1:15-c\ 76:4, 76:8, 78:11, 363:5, 363:11, plan [3] - 108:6, 26:22 22:18 78:14, 85:9, 87:5, 375:22, 375:23, Policies [2] - 25:17, 283:18, 348:4 playing [11] - 52:3, 87:12, 87:15, 87:22, 388:6, 425:7, plane [1] - 166:1 54:5, 117:1, 137:7, 25:23 88:1, 88:5, 88:9, 425:16, 431:21 planning [3] - 226:21, 170:16, 218:1, Policy [10] - 2:7, 9:15, 88:12, 88:13, 89:6, physically [2] - 82:5, 229:21, 282:11, 9:22, 21:1, 22:16, 348:19, 444:8 89:8, 89:12, 89:25, 372:23, 384:20, 24:24, 25:5, 98:13, 392:23 platform [1] - 372:13 90:14, 90:17, 90:19, physicist [2] - 284:24, 385:10 98:24. 99:9 plausible [19] - 38:10, 91:1, 91:2, 91:5, 330:16 158:3. 179:22. plenty [3] - 170:24, policy [46] - 9:3, 9:8, 91:6, 102:5, 102:8, physicists [4] - 280:8, 180:2, 180:3, 180:4, 171:1, 171:4 9:21, 9:23, 22:8, 102:12, 102:18, 283:10, 284:20, plot [1] - 405:17 22:9, 22:19, 22:20, 180:13, 183:17, 103:6, 104:8, 440:21 plotted [1] - 387:7 22:22, 23:3, 23:25, 187:3, 222:22, 104:15, 104:19, 384:24, 385:3, physics [10] - 33:24, 24:20, 24:24, 25:12, plug [1] - 364:19 104:23, 105:1, 25:13, 25:15, 26:2, 188:22, 281:5, 385:14, 385:17, **plugging** [1] - 219:20 105:19, 105:21, 286:11, 440:16, 385:19, 391:16, plural [1] - 255:15 26:14, 26:15, 26:17, 106:3, 106:8, 440:23, 440:24, 391:21, 392:24 26:18, 26:22, 44:19, point [72] - 8:13, 10:1, 106:12, 106:13, 448:20, 448:24, 45:21, 45:25, 46:2, play [17] - 49:23, 52:1, 10:19, 28:21, 29:6, 106:17, 106:18, 46:15, 46:17, 86:13, 449:3 59:23, 76:11, 76:18, 30:15, 33:13, 34:1, 106:20, 106:25, 97:13, 98:13, 153:4, Physics [8] - 280:10, 77:10, 148:3, 35:23, 37:13, 38:16, 107:15, 107:22, 250:13, 250:16, 280:14, 280:18, 186:10, 214:17, 38:20, 41:17, 42:25, 107:24, 108:7, 250:19, 272:4, 280:20, 281:16, 236:20, 236:21, 75:15, 80:13, 84:14, 108:9, 108:12, 281:21, 439:25, 303:18, 348:9, 107:22, 109:8, 272:8, 272:14, 108:17, 109:6, 440:4 360:21, 378:5, 273:1, 311:12, 114:17, 121:17, 109:9, 109:12, pick [12] - 51:24, 52:1, 311:21, 311:25, 442:13, 443:2 129:2, 149:5, 109:20, 110:6, 312:3 114:25, 115:10, played [12] - 47:20, 157:25, 158:1, 110:25, 111:10, 115:12, 115:21, ponder [1] - 445:5 49:2, 54:24, 55:1, 162:1, 163:23, 111:24, 132:22, 116:1, 116:12, 69:16, 73:15, 73:16, 164:1, 169:9, pooled [1] - 419:17 134:4, 134:10, 118:12, 386:7, 74:4, 76:19, 257:4, 169:18, 169:19, population [2] -139:16, 140:13, 386:10 267:10 437:19, 437:20 174:20, 186:22, 140:18, 146:19, portion [3] - 104:11, picked [14] - 71:24, player [45] - 9:5, 9:10, 190:2, 200:10, 230:14, 287:18, 114:16, 114:24, 9:11, 9:25, 10:5, 204:10, 213:18, 212:18, 213:5 313:7, 313:19, portions [1] - 209:20 115:23, 118:13, 10:11, 12:8, 19:11, 219:10, 221:8, 331:15, 332:17, 118:14, 148:2, 19:14, 22:12, 23:3, 242:12, 291:13, posed [1] - 11:8 334:17, 334:19, 384:22, 386:10, 23:19, 23:20, 24:19, 313:16, 319:3, position [10] - 9:3, 335:1, 336:18, 400:17, 400:23, 24:20, 25:10, 25:12, 320:3, 321:19, 150:17, 150:21, 337:1, 337:8, 400:24, 401:8 25:13, 26:21, 28:4, 343:19, 367:19, 217:15, 284:9, 337:10, 338:4, picking [3] - 94:19, 35:20, 36:1, 36:2, 378:23, 396:25, 312:15, 338:13, 339:2, 442:6, 442:9 95:5, 144:23 41:5, 42:18, 42:19, 399:5, 400:21, 339:5, 421:14, 440:7 phones [17] - 43:13, picture [2] - 351:3, 46:1, 46:2, 90:21, 402:16, 413:13, positions [2] - 412:12, 86:25, 87:2, 87:10, 99:14, 236:9, 415:11, 415:12, 353:13 440:8 87:17, 87:18, 89:15, piece [3] - 59:9. 236:12, 245:14, 415:25, 416:19, positive [2] - 18:16, 90:20, 101:14, 245:17, 245:20, 420:19, 421:25, 264:21, 444:9 425:10 101:16, 101:19, 245:21, 247:3, 424:18, 442:18, pieces [2] - 275:15, positively [1] - 154:20 102:23, 103:2, 251:2, 254:1, 442:25, 445:24, 349:6 possession [2] -305:21, 311:18, Pierre [1] - 155:13 257:18, 260:14, 446:11, 446:12, 236:2, 377:22 311:19, 338:12 260:15, 334:15 446:13, 449:6, pin [1] - 186:17 possibilities [6] phonetically [1] players [22] - 15:11, 449:12, 449:15, pissed [3] - 57:8, 57:9, 188:8, 369:6, 369:7, 258:20 21:13, 21:20, 22:15, 453:19, 454:8, 456:1 57:22 392:21, 393:1, 393:2 phonetically] [1] -23:8, 24:1, 25:3, pointed [6] - 340:4, place [13] - 18:11, possibility [12] -373:15 25:8, 25:18, 25:19, 367:7, 425:2, 162:15, 211:4, 186:19, 187:3. photocopy [1] -426:11, 432:9, 447:6 36:11, 39:11, 45:11, 230:19, 234:10, 192:25, 366:17, 122:21 46:10, 53:24, pointing [3] - 348:3, 248:4, 251:14, 366:20, 377:2, photos [2] - 90:19, 250:24, 272:15, 366:21, 431:18 252:23, 256:21, 385:4, 389:14, 90:23 272:18, 273:2, points [12] - 30:12, 276:5, 288:12, 409:24, 414:2, phrase [1] - 274:24 311:19, 312:3, 312:4 33:10, 34:1, 42:16, 399:1, 443:18 414:6, 423:25 physical [19] - 327:17, Players [5] - 25:17, 66:7, 178:14, placed [2] - 104:7. possible [27] - 49:10. 349:10, 350:17, 25:23, 36:9, 36:10, 289:17, 303:23, 105:13 81:15, 82:17, 351:24, 352:3, 322:12 373:21, 374:10, places [1] - 239:2 103:16, 120:17, 356:1, 356:17, **PLAYERS** [4] - 3:3, 416:24, 426:2 plain [1] - 452:22 143:25, 144:4, 356:18, 360:21, 3:9, 4:8, 5:13 policies [5] - 9:19, plainly [1] - 40:23 145:17, 237:5, 362:14, 362:21, players' [2] - 25:5, 21:21, 22:3, 22:15, 266:13, 297:17, plaintiff [1] - 284:9

29720, 314-02.  7623, 38-10, 38-13, 38-13, 38-13, 38-13, 38-13, 38-14, 48-18, 38-64, 38-16, 3					1 <del>-6-01-1-1</del> 0-22-20
34415, 3882, 387, 78719, 884, 3811, 38415, 3852, 3811, 3821,					
3701-14, 384-14, 384-15, 385-16, 365-16, 365-16, 367-16, 391-12, 392-19, 391-12, 392-19, 391-12, 392-19, 391-12, 392-19, 391-12, 392-19, 391-12, 391	,		· ·	· ·	, ,
384:16, 385:6, 386:14, 382:19			•		
39112, 1392.19,   1061.1, 1061.6,   1082.0,   1081.6,   1082.0,   1081.6,   1082.0,   1081.6,   1082.0,   1081.6,   1082.0,   1081.8,   1081.6,   1082.0,   1081.6,   1082.0,   1081.6,   1082.0,   1081.6,   1082.0,   1081.6,   1082.0,   1081.6,   1082.0,   1081.6,   1082.0,	· ·	· · · · ·	•		
4075. 408:20, 108:16, 108:20, 1407.13, 102.44, 415.6, 140:24, 415.6, 444:21 and 10.73, 109.28) prossibly (ay - 26:1, 220:15, 304:18, 220:15, 304:19, 220:15, 304:18, 220:15, 304:19, 220:15, 304:19, 220:15, 304:19, 220:15, 304:19, 220:15, 304:19, 3					
4101.3, 410.24, 4136.1, 412.1, 128.24, 4136.1, 412.1, 128.24, 128.2, 128.1, 128			=	-	
prosibly [19] 2-86-1, 289-1, 107-9, 107-121, 108-5, 108-12, 298-1, 207-9, 298-1, 207-9, 298-1				•	
possibly			•	· · · · ·	
28-19 (197-21) (197-2)			=		
100721, 108.50   108.19, 144.13, 228.8, 236.25, 33.22.13, 325.18, 345.19   199.212, 193.11, 193.18, 199.212, 193.11, 193.18, 199.214, 193.18, 199.214, 193.18, 199.25, 248.22, 249.4, 249.4, 249.7, 249.13, 298.16, 318.7, 394.19, 455.18, 456.7, 240.13, 286.1, 365.2, 248.22, 345.11, 286.1, 365.1, 365.2, 248.22, 345.11, 493.18, 245.11, 493.18, 245.11, 493.18, 245.11, 493.18, 245.11, 493.18, 245.11, 493.18, 245.13, 288.16, 365.2, 365.1, 365.2, 365.1, 365.2, 365.2, 365.14, 365.7, 366.24, 368.19, 366.24, 369.19, 355.24, 365.6, 365.2, 365.18, 265.2, 365.18, 365.2, 365.18, 365.2, 365.18, 365.2, 365.18, 365.2, 365.18, 365.2, 365.18, 365.2, 365.18, 365.2, 365.18, 365.2, 365.18, 365.2, 365.18, 365.2, 365.18, 365.2, 365.18, 365.2, 365.18, 365.2, 365.18, 365.2, 365.14, 365.77, 366.24, 368.19, 366.24, 369.10, 366.24, 366.7, 366.24, 366.7, 366.24, 366.7, 366.24, 366.7, 366.24, 366.7, 366.24, 366.7, 366.24, 366.7, 366.24, 366.7, 366.24, 366.7, 366.24, 366.7, 366.24, 366.7, 366.24, 366.7, 366.24, 366.18, 366.25, 366.14, 369.24, 369		· ·	-		
208.19, 144-13, 2298.26, 238-25, 395-19, 395-20   345-19   prostiger   193-11, 193-14, 193-18, 245-18, 248-2, 249-7, 249-13, 298-16, 193-25, 248-2, 249-7, 249-13, 298-16, 193-25, 248-2, 249-13, 298-16, 193-25, 193-25, 248-2, 249-13, 298-16, 193-25, 248-22, 249-13, 298-16, 193-25, 248-22, 249-13, 298-16, 193-25, 248-22, 249-13, 298-16, 193-25, 249-25, 365-18, 365-14, 365-17, 365-18, 365-19, 365-25, 365-22, 365-18, 365-22, 365-18, 365-22, 365-18, 365-22, 365-18, 365-23, 365-14, 365-17, 365-23, 365-18, 365-23, 365-14, 365-25, 365-23, 365-14, 365-25, 365-23, 365-14, 365-25, 365-23, 365-14, 365-25, 365-23, 365-14, 365-25, 365-23, 365-14, 365-25, 365-23, 365-14, 365-25, 365-23, 365-14, 365-25, 365-23, 365-14, 365-25, 365-23, 365-14, 365-23, 365-14, 365-23, 365-14, 365-23, 365-14, 365-23, 365-14, 365-23, 365-14, 365-23, 365-14, 365-23, 365-14, 365-23, 365-14, 365-23, 365-14, 365-23, 365-14, 365-23, 365-14, 365-23, 365-14, 365-23, 365-14, 365-23, 365-14, 365-23, 365-14, 365-23, 365-14, 365-24, 365-15,					
2228.236.25, 336.218, 345.19 post 227-28.13, 325.18, 345.19 post 227-28.13, 325.18, 345.19 post 227-28.13, 325.18, 345.19 post 227-28.13, 325.18, 336.19 post 227-28.13, 325.18, 336.19 post 227-28.13, 325.19		=			
398519, 398520   348519   praising   - 330:11   prediction   - 18817   prediction   - 28815   prediction   - 28815   prediction   - 28815   prediction   - 18817   prediction   - 28815   prediction   - 28817   prediction   - 288	·	•			
posttg2 - 28.13, praiding    - 330.11 praising    - 330.11 prayling    - 28.12    9.74 prayling    - 28.13    9.74 prayling    - 28.13    9.74 prayling    - 28.13    9.74 prayling    - 28.13    9.74 praising    - 330.11    9.74 pr				· ·	
1922.1   193.11,   193.12, 281.16,   193.25, 248.22,   294.10   19.11   19.1	· ·		-	•	
193-14, 193-18,   193-25, 248-22,   2494, 2497,   2494, 24	•	=	•	· · · · ·	
39.25, 248.22, 249.4, 249.7, 249.13, 298.16, 318.7, 394.19, 172.23, 183.18, 279.241.15, 452.2, 456.18, 456.7, 456.18, 456.1, 366.2, 324.15, 193.14, 193.18, 366.19, 366.14, 366.17, 366.14, 366.17, 366.14, 366.17, 366.14, 366.17, 376.8, 376.8, 376.16, 396.5, 238.4, 349.10, 355.24, 366.6, 43.84.19, 376.8, 376.8, 376.18, 390.11, 328.16, 318.2, 329.10, prepare [61] - 123.3, 43.8, 45.10, 53.25, 177.19, 221.17, 233.14, 200.23, 216.8, 217.11, 221.17, 231.14, 249.13, 298.16, 318.7, 451.6, 451.9, 451.15, 452.2, 408.8, 414.3, 414.6, 424.22, 425.19, 428.13, 428.14, 422.1, 428.13, 428.18, 451.9, 433.23, 299.10, 200.23, 216.8, 217.11, 211.0, 288.13, 239.10, 200.23, 216.8, 217.11, 211.0, 288.13, 239.10, 299.11, 339.16, 339.14, 399.16, 396.25, 306.15, 366.25, 366.24, 368.19, 366.24, 366.14, 367.14, 36		-	• • • • • • • • • • • • • • • • • • • •		352:13, 352:16,
249-13, 298-16, 249-17, 249-13, 298-16, 163:25, 170:19, 170:23, 183:18, 394:19, 479-18, 489-19, 489-		<del>-</del>	-		· · ·
249:13, 298:16, 318:7, 394:19, 172:23, 183:18, 180:5, 186:20, 451:15, 452:2, 455:7, 200:23, 2168, 221:17, 233:14, 221:17, 233:14, 221:17, 233:14, 221:17, 233:14, 221:17, 233:14, 221:18, 233:15, 241:5, 185:18, 186:7, 249:13, 298:16, 366:24, 369:10, 366:14		• •			
318.7. 394.19,   172.23, 183.18,   172.23, 183.18,   185.5, 186.20,   185.5, 186.20,   187.2, 189.23,   217.11, 221.10,   221.17, 233.14,   221.17, 233.14,   221.17, 233.14,   221.17, 233.14,   221.17, 233.14,   221.18,   233.15, 241.5,   249.5, 292.18,   366.14, 365.17,   366.14, 365.17,   366.14, 365.17,   366.14, 365.17,   366.14, 365.17,   366.14, 365.17,   366.14, 365.17,   366.14, 365.17,   366.14, 365.17,   366.14, 365.17,   366.14, 365.17,   366.14, 365.17,   366.14, 365.17,   366.14, 365.17,   366.14, 365.17,   366.14, 365.17,   366.14, 365.17,   366.14, 366.17,   376.8, 376.18, 396.18,   376.18, 396.19, 386.19, 366.20,   366.14, 3		•	• • • • • • • • • • • • • • • • • • • •		
451:15, 452:2, 487:2, 189:23, 451:15, 452:2, 187:2, 189:23, 200:23, 216.8, 200:23, 216.8, 451:15, 452:2, 458:18, 456:7, 458:18, 456:7, 459:18, 458:19, 231:15, 249.5, 292:18, 193:21, 193:11, 249.5, 292:18, 193:25, 248:22, 249.4, 249.7, 365:1, 365:2, 366:24, 368:19, 368:24, 369:10, 318:7, 451:6, 456:18 366:7, 456:1, 456:1, 456:1, 456:1, 576:2, 366:1, 366:2, 366:1, 366:2, 366:1, 366:2, 366:1, 366:2, 366:1, 366:1, 366:2, 366:1, 3	318:7, 394:19,		=		355:14, 355:25,
451:15, 452:2, 454:23, 455:7, 200:23, 216:8, 456:18, 456:7, 456:18 221:17, 233:14, 233:15, 241:5, 249:5, 292:18, 193:25, 248:22, 365:14, 365:17, 249:13, 298:16, 366:24, 366:17, 249:13, 298:16, 366:24, 366:17, 249:13, 298:16, 366:24, 366:17, 249:13, 298:16, 366:24, 368:10, 455:18 post-hearing [3] 282:14, 456:18 post-hearing [3] 282:14, 365:18 post-hearing [3] 282:15, 365:14, 365:15 post-hearing [3] 282:15 post-h	451:6, 451:9,			presently [1] - 113:13	356:10, 356:21,
455:18, 456:7, 459:18, 456:7, 459:18, 456:18, 456:7, 459:18, 456:18  post-pame [18] - 289:16, 365:2, 459:18, 366:14, 365:17, 366:24, 368:19, 368:18, 365:5, 456:18  post-hearing [9] - 281:13, 456:7, 456:18  post-hearing [9] - 281:14, 422:14, 423:14, 422:14, 423:14, 423:14, 423:14, 433:18, 443:18  pounding [3] - 282:12, 328:12, 329:10  power [1] - 394:19, 456:17, 456:18  power [1] - 233:26, 403:13, 466:17, 366:47, 366:47, 366:47, 366:54, 401:10  preparations [2] - 43:3, 20:22, 425:19, 436:41, 268:18, 404:13, 424:18, 425:14, 436:14	451:15, 452:2,		•		356:23, 357:6,
455:18, 456:7, 456:18  217:11, 221:10, 122:8, 124:2, 148:17 preferred [7] - 114:12, 159:18, 369:19, 366:14, 365:17, 366:22, 249:4, 249:7, 249:13, 289:16, 318:7, 451:6, 451:9, 451:15, 452:2, 454:23, 455:7, 456:18 post-hearing [3] post-hearing [3	454:23, 455:7,		•	=	357:10, 357:11,
486:18   221:17, 233:14, 233:14, 233:15, 241:5, 233:15, 241:5, 233:14, 193:18, 364:9, 364:17, 366:14, 365:17, 249:13, 298:16, 366:24, 368:19, 366:24, 368:19, 376:18, 376:19, 376:18,	455:18, 456:7,			•	357:15, 358:14,
Dost-game    8    233.15, 241:5,   249:5, 292:18,   143:15, 118:7,   193:14,   249:5,   248:22,   249:24	456:18				359:18, 360:7,
192:21, 193:11,   249:5, 292:18,   364:9, 364:17,   365:2, 249:4, 249:7,   249:13, 298:16,   365:14, 365:17,   366:24, 368:19,   376:18, 376:8, 376:9, 376:16, 396:5, 286:7, 456:18   376:8, 376:9, 376:16, 396:5, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 156:5, 186:20, 451:18   186:5, 186:20, 451:18   186:5, 186:20, 451:18   186:5, 186:20, 451:18   186:5, 186:20, 451:18   186:5, 186:20, 451:18   186:5, 186:20, 451:18   186:5, 186:20, 451:18   186:5, 186:20, 451:18   186:5, 186:20, 451:18   186:5, 186:20, 451:14   186:5, 186:20, 451:14   186:5, 186:20, 451:14   186:5, 186:20, 451:14   186:5, 186:20, 451:14   186:5, 186:20, 366:17, 366:14, 366:17, 366:14, 366:17, 366:14, 366:17, 370:6, 370:6, 370:13, 372:18, 380:13, 382:6, 388:17, 396:10, 390:13, 390:13, 390:13, 390:13, 390:13, 390:13, 390:14, 399:16, 390:13, 390:13, 390:14, 399:16, 390:14, 390:16, 390:14, 390:16, 390:14, 390:16, 390:14, 390:16, 390:14, 390:16, 390:14, 390:16, 390:14, 390:14, 390:16, 390:14, 390:14, 390:14, 390:16, 390:14, 390:14, 390:14, 390:16, 390:14, 390:14, 390:14, 390:14, 390:16, 390:14, 390:14, 390:14, 390:16, 390:14, 39	post-game [18] -		•	President [10] - 2:6,	
193:14, 193:18,   364:9, 364:17,   365:12, 365:1, 365:2, 249:4, 249:7,   366:14, 365:17, 366:24, 368:19, 366:24, 368:19, 366:24, 368:19, 366:24, 368:19, 366:24, 369:10, 451:15, 452:2, 454:23, 455:7, 455:18   376:18, 396:5, 282:13, 456:7, 456:18   376:16, 396:5, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:24, 349:10, 155:7, 191:25, 238:24, 349:10, 152:39   172:23, 183:18, 404:13, 421:8, 424:22, 421:1, 221:10, 233:25, 403:13, 221:17, 233:14, 221:17, 233:14, 221:17, 233:14, 228:12, 329:10   pounds [s] - 282:12, 328:12, 329:10   pounds [s] - 131:15, 113:23, 294:22, 261:03, 366:13, 366:24, 366:14, 376:13, 376:18, 376:13, 370:18, 376:18, 376:18, 376:18, 376:18, 376:19, 376:18, 376:19, 376:18, 376:19, 376:18, 376:19, 376:18, 376:19, 376:18, 376:19, 376:18, 376:19, 376:18, 376:19, 376:18, 376:19, 376:18, 376:19, 376:18, 376:19, 376:18, 376:19, 376:18, 376:19	192:21, 193:11,				361:14, 363:8,
19325, 248:22,   366:1, 365:2,   366:1, 365:17,   366:24, 368:19,   368:24, 368:19,   368:24, 368:19,   376:18, 376:18,   376:18, 376:19,   376:18, 376:18,   376:18, 376:19	193:14, 193:18,	364:9, 364:17,			364:8, 364:20,
249:13, 298:16, 366:14, 366:17, 366:24, 368:19, 366:24, 368:19, 368:24, 369:10, 451:15, 452:2, 370:5, 375:8, 375:13, 375:18, 455:7, 456:18 post-hearing [3] - 281:14, 452:14, 433:12.3 prejudical [1] - 455:1 preliminary [1] - 417:9 premises [2] - 43:10, post-hearing [3] - 282:12, 323:25 presude [43] - 163:5, 186:20, 400:14, 242:1, 242:10, 250:4 preparation [10] - 647:6, 69:5, 70:17, 309:17, 340:22, 399:13, 399:13, 399:14, 399:16, 399:14, 399:16, 399:13, 399:14, 399:16, 399:14, 399:16, 399:18, 414:7, 432:2, 323:25 preparation [2] - 335:24, 365:6, 401:10 preparations [2] - 335:24, 365:12, 329:10 pounds [5] - 113:15, 113:2, 366:17, 366:14, 366	193:25, 248:22,	365:1, 365:2,	· ·	228:9, 249:24,	
249:13, 298:16, 366:24, 368:19, 368:24, 369:10, 451:15, 452:2, 454:23, 455:7, 375:18, 376:8, 376:9, 9ost-hearing [8] - 28:13, 456:7, 456:18 post-time [1] - 394:19 potential [10] - 29:16, 238:4, 349:10, 355:24, 365:6, 172:23, 183:18, 404:13, 421:8, 404:13, 421:8, 404:13, 421:8, 232:25, 403:13, 221:17, 221:10, pounding [3] - 282:12, 328:12, 329:10 pounding [3] - 282:12, 328:12, 329:10 pounding [3] - 282:12, 328:10, 306:12, 366:14, 366:17, 366:14, 376:9, 376:16, 396:23, 369:23, 366:14, 366:17, 366:14, 366:17, 366:14, 366:17, 366:14, 366:17, 366:14, 366:17, 366:14, 366:17, 366:14, 366:17, 366:14, 366:17, 366:14, 366:17, 366:14, 366:17, 366:14, 366:17, 366:14, 366:17, 366:14, 366:17, 366:14, 366:18, 366:23, 366:14, 366:18, 366:23, 366:14, 366:23, 366:14, 366:24	249:4, 249:7,	365:14, 365:17,	=	263:15	
368:24, 369:10, 368:24, 369:10, 370:5, 375:8, 375:13, 375:18, 376:16, 396:5, 455:18		366:24, 368:19,	• •	president [4] - 246:7,	
451:15, 452:2, 455:7, 455:18 454:23, 455:7, 456:18  post-hearing [3] - 281:13, 456:7, 456:18  post-time [1] - 394:19 potential [10] - 29:16, 155:7, 191:25, 238:4, 349:10, 365:24, 365:6, 172:23, 183:18, potentially [3] - 202:23, 216:8, 233:25, 403:13, 443:8  potentially [3] - 202:117, 233:14, 221:17, 233:14, 221:17, 233:24, 356:14, 364:17, 365:1, 13:23, 294:22, 294:25, 351:6  pownds [5] - 113:15, 113:23, 294:22, 294:25, 306:19, 368:24, 396:10, 376:8, 376:8, 376:8, 376:8, 376:13, 396:6, 396:23, 403:13, 433:23  prowpr [1] - 435:9  power [1] - 435:9  power [2] - 24:10, 250:4  preparation [10] - prepare [9] - 142:24, press [9] - 142:24, preparation [10] - prepare [9] - 12:3, 364:12, 309:17, 340:22, 398:15, 398:20, 399:13, 399:16, 399:14, 399:16, 399:14, 399:16, 399:14, 399:16, 399:18, 414:7, 416:24, 400:4  preparations [2] - 356:4, 401:10 prepare [8] - 12:3, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:15, 77:2, 64:21, 65:24, 401:10 prepare [8] - 12:3, 64:21, 65:6, 60:8, 60:25, 60:34, 64:25, 67:24, 68:6, 96:13, 114:18, 115:1, 115:3, 116:5, 113:24, 114:18, 115:1, 115:3, 116:5, 116:8, 116:9, 116:14, 118:5, 116:8, 116:9, 116:14, 118:5,		368:24, 369:10,		345:16, 345:17,	·
455:18 post-hearing [3] - 28:13, 456:7, 456:18 post-time [1] - 394:19 potential [10] - 29:16, 155:7, 191:25, 238:4, 349:10, 355:24, 365:6, 404:13, 421:8, 404:13, 421:8, 455:18 potentially [3] - 200:23, 216:8, 233:25, 403:13, 433:8 pounding [3] - 282:12, 238:12, 329:10 pounds [5] - 113:15, 113:23, 294:22, 294:25, 351:6 power [1] - 435:9 power [1] - 435:9 power [0] - 435:0 power [0] - 22:14, 433:23 prepared [0] - 12:2, 13:5, 16:20, 16:21, 16:22, 18:8, 18:18, 19:6, 60:8, 60:28, 11:10, 250:14 power [0] - 435:0 powe			_	347:14	
## post-hearing [3] - 376:16, 396:5, 376:16, 396:5, 376:16, 396:5, 376:16, 396:5, 376:16, 396:5, 376:16, 396:5, 376:16, 396:5, 376:16, 396:5, 376:16, 396:5, 376:16, 396:5, 376:16, 396:24, 426:22, 425:19, 427:3 potential [10] - 29:16, 155:7, 191:25, 238:4, 349:10, 163:25, 170:19, 355:24, 365:6, 172:23, 183:18, 404:13, 421:8, 45:10, 53:25, 100, 376:8, 376:8, 376:8, 376:8, 376:8, 376:8, 376:8, 376:8, 376:16, 396:24, 406:11, 396:12, 369:13, 400:4 preparations [2] - 356:4, 401:10 prepare [8] - 12:3, 64:21, 65:15, 77:2, 80:19, 80:20, 321:5, 396:13 prepared [16] - 11:2, 54:23, 60:24, 117:7, 146:2, 294:25, 351:6 366:14, 366:14, 366:14, 366:14, 366:14, 376:18, 376:8, 375:13, 396:24, 433:23 predicte [26] - 43:10, 43:18, 45:10, 53:25, 414:6, 424:22, 444:6, 424:22, 445:14, 445:14, 445:14, 445:14, 47			• • • • • • • • • • • • • • • • • • • •	presidents [1] - 99:7	
28:13, 456:7, 456:18 post-time [1] - 394:19 potential [10] - 29:16, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 155:7, 191:25, 238:4, 349:10, 158:24, 365:6, 404:13, 421:8, 404:13, 421:8, 404:13, 421:8, 405:11, 396:16, 396:23, 400:4 preparation [10] - 64:7, 69:5, 70:17, 81:4, 142:21, 267:18, 396:11, 399:17, 340:22, 398:9, 398:15, 398:10, 399:14, 399:16, 399:14, 399:				press [9] - 142:24,	
26:13, 496:7, 496:18 post-time [1] - 394:19 potential [10] - 29:16, 155:7, 191:25, 238:4, 349:10, 355:24, 365:6, 172:23, 183:18, 186:5, 186:20, 187:2, 189:23, 201:23, 216:8, 221:17, 233:14, 221:17, 233:14, 396:13, 217:11, 221:10, pounding [3] - 282:12, 328:12, 329:10 pounding [3] - 282:12, 328:16, 113:23, 294:22, 292:18, 366:24, 366:24, 113:23, 294:22, 366:16, 366:17, 366:12, 366:14, 266:8, 268:9, 294:22, 366:14, 366:24, 366:24, 390:18, 376:8, 376:8, 376:8, 376:8, 376:9, 376:16, 396:23, 414:6, 424:22, 425:14, 425:14, 425:14, 431:18, 432:2, 441:18, 441:7, 441:18, 441:7, 441:18, 441:7, 441:18, 441:7, 441:18, 441:7, 441:18, 441:7, 441:18, 441:7, 441:18, 441:7, 441:18, 441:7, 441:18, 441:7, 441:18, 441:7, 441:18, 441:7, 441:18, 441:7, 441:18, 441:7, 441:18, 441:7, 441:18, 441				261:25, 262:17,	
potential [1] - 394:19 potential [1] - 29:16, 155:7, 191:25, 238:4, 349:10, 355:24, 365:6, 404:13, 421:8, 405:4, 400:4, 400					
267:18, 396:11, 396:16, 396:23, 400:4	•				
155!7, 191:25,   238:4, 349:10,   355:24, 365:6,   404:13, 421:8,   404:13, 421:8,   451:10   292:18, 364:9,   294:25, 351:6   294:25, 351:6   294:25, 351:6   294:25, 351:6   294:25, 351:6   294:25, 351:6   294:25, 351:6   294:25, 351:6   294:25, 351:6   294:25, 351:8   376:18, 376:1	•				
355:24, 365:6, 404:13, 421:8, 455:18 186:5, 186:20, 455:18 186:5, 186:20, 455:18 187:2, 189:23, 200:23, 216:8, 217:11, 221:10, 221:17, 233:14, 221:17, 233:14, 241:5, 249:5, 292:18, 364:9, 365:17, 366:24, 294:25, 351:6 294:25, 351:4 294:25, 351:14, 374:25, 374:14, 374:25, 374:14, 374:25, 374:14, 374:25, 374:14, 374:25, 374:25, 374:25, 374:25, 374:25, 374:25, 374:25, 374:25, 374:25, 374:25, 374:25, 374:25, 374:25, 374:25		· -	396:16, 396:23,	=	
404:13, 421:8, 451:18			400:4		
451:18			preparations [2] -		· · · · · · · · · · · · · · · · · · ·
potentially [3] - 233:25, 403:13, 443:8 221:17, 233:14, 290:23, 216:8, 221:17, 233:14, 221:18, 816:2, 61:24, 68:6, 96:13, 114:18, 115:1, 115:13, 116:5, 116:8, 116:9, 116:14, 118:5, 118:8, 12:25, 118			356:4, 401:10		
233:25, 403:13, 443:8 217:11, 221:10, 221:17, 233:14, 221:17, 233:14, 241:5, 249:5, 292:18, 364:9, 362:17, 365:17, 366:24, 294:25, 351:6 power [1] - 435:9 power [0] - 435:9 power [0] - 435:9 power [0] - 302:0, 417:10 practical [2] - 221:4, 433:23 practice [26] - 43:10, 43:18, 45:10, 53:25, 416:6, 424:22, 455:14 practice [26] - 43:10, 43:18, 45:10, 53:25, 416:6, 424:22, 455:14 practice [26] - 43:10, 43:18, 45:10, 53:25, 416:6, 321:9 practice [26] - 43:10, 43:18, 45:10, 53:25, 421:10, 321:9 practice [26] - 43:10, 43:18, 45:10, 53:25, 421:10, 425:18, 426:23, 427:5, 427:6, 428:3, 427:5, 428:3, 427:5, 428:3, 427:5, 428:3, 427:5, 428:3,			prepare [8] - 12:3,	· · · · · · · · · · · · · · · · · · ·	· ·
443:8  pounding [3] - 282:12, 328:12, 329:10  pounds [5] - 113:15, 113:23, 294:22, 294:25, 351:6  power [1] - 435:9  PowerPoint [2] - 330:20, 417:10  practical [2] - 221:4, 433:23  practice [26] - 43:10, 43:18, 45:10, 53:25,  427:5, 427:6, 428:3, 431:11, 432:4, 432:19, 434:22, 445:18, 16:9, 116:8, 116:9, 116:8, 116:9, 116:8, 116:9, 116:14, 118:5, 116:14, 118:5, 118:8, 121:25, 118:8, 121:15, 11	-		64:21, 65:15, 77:2,		
pounding [3] - 282:12, 329:10			80:19, 80:20, 321:5,		
328:12, 329:10  pounds [5] - 113:15,			396:13		
pounds [5] - 113:15,	-				
113:23, 294:22, 365:14, 365:2, 365:14, 264:16, 265:4, 268:8, 268:9, 369:10, 370:5, 369:20, 417:10 375:18, 375:13, practical [2] - 221:4, 433:23 practice [26] - 43:10, 43:18, 45:10, 53:25, 414:6, 424:22, 465:14, 365	·		54:23, 60:24, 117:7,		
294:25, 351:6  power [1] - 435:9  368:19, 368:24, 369:10, 370:5, 330:20, 417:10  practical [2] - 221:4, 433:23  practice [26] - 43:10, 43:18, 45:10, 53:25,  366:17, 366:24, 366:24, 366:24, 369:10, 370:5, 368:19, 368:24, 268:8, 268:9, 269:24, 356:4, 356:8, 371:20, 399:22, 444:11  preparing [5] - 71:19, 80:18, 80:23, 414:6, 424:22,  268:8, 268:9, 141:4, 157:20, 158:24, 158:25, 162:23, 163:16, 355:8, 357:13, 399:22, 444:11  preparing [5] - 71:19, 80:18, 80:23, 250:10, 321:9  141:4, 157:20, 158:24, 158:25, 162:23, 163:16, 375:8, 357:13, 362:21, 374:14, 374:15, 374:16, 374:20, 374:21, 455:14	=		144:7, 146:2,		
power [1] - 435:9       368:19, 368:24,       268:8, 268:9,       158:24, 158:25,       239:10, 353:2,         PowerPoint [2] - 330:20, 417:10       375:8, 375:13,       375:18, 376:8,       375:18, 376:8,       399:22, 444:11       166:18, 167:8,       355:8, 357:13,         practical [2] - 221:4,       376:9, 376:16,       399:22, 444:11       167:20, 169:16,       374:15, 374:14,         practice [26] - 43:10,       396:5, 408:8, 414:3,       80:18, 80:23,       172:10, 172:13,       374:20, 374:21,         43:18, 45:10, 53:25,       414:6, 424:22,       414:6, 424:22,       197:7, 197:23,       455:14					pressures [14] - 13:7,
PowerPoint [2] -       369:10, 370:5,       269:24, 356:4,       162:23, 163:16,       355:8, 357:13,         330:20, 417:10       375:8, 375:13,       399:22, 444:11       166:18, 167:8,       355:8, 357:13,         practical [2] - 221:4,       375:18, 376:8,       376:9, 376:16,       167:20, 169:16,       374:15, 374:16,         practice [26] - 43:10,       396:5, 408:8, 414:3,       80:18, 80:23,       172:10, 172:13,       374:20, 374:21,         43:18, 45:10, 53:25,       414:6, 424:22,       414:6, 424:22,       197:7, 197:23,       455:14					
330:20, 417:10 375:8, 375:13, 399:22, 444:11 preparing [5] - 71:19, 433:23 375:8, 376:9, 376:16, 375:8, 376:16, 375:18, 376:8, 376:9, 376:16, 375:18, 376:16, 375:18, 376:16, 375:18, 376:16, 375:18, 376:16, 375:18, 376:16, 375:18, 376:16, 375:18, 376:16, 375:18, 376:16, 375:18, 376:16, 375:18, 376:16, 375:18, 376:16, 376:20, 169:16, 171:15, 172:8, 374:15, 374:16, 374:20, 374:21, 475:14	-				
practical [2] - 221:4,     375:18, 376:8,     399:22, 444:11     167:20, 169:16,     362:21, 374:14,       433:23     376:9, 376:16,     80:18, 80:23,     171:15, 172:8,     374:20, 374:21,       practice [26] - 43:10,     43:18, 45:10, 53:25,     414:6, 424:22,     414:6, 424:22,     197:7, 197:23,					
433:23 376:9, 376:16, 80:18, 80:23, 171:15, 172:8, 374:20, 374:21, 43:18, 45:10, 53:25, 414:6, 424:22, 414:6, 4	·				
<b>practice</b> [26] - 43:10, 43:18, 45:10, 53:25, 414:6, 424:22, 80:18, 80:23, 250:10, 321:9 172:10, 172:13, 455:14 374:20, 374:21, 455:14	-		• •		374:15, 374:16,
43:18, 45:10, 53:25, 414:6, 424:22, 250:10, 321:9 197:7, 197:23, 455:14					
	•		· ·		455:14
	.55, 15.15, 55.25,	,	preponderance [5] -	,	presumably [1] -

<del>7 of **172</del>age</del> 39</del>** ument 28-230 15:7, 112:12, 336:2, 399:24 probative [2] - 38:24, 344:5 192:2, 192:5, 341:12, 341:14 presume [3] - 161:9, proposed [2] - 334:11, 215:14, 216:1, 40:10 produced [12] - 86:18, 161:24, 401:17 probed [1] - 441:15 456:6 216:8, 217:2, presumed [1] - 163:6 problem [10] - 219:1, 89:9, 100:12, 104:9, proposition [1] -217:10, 217:13, 110:16, 110:21, 434:19 218:2, 238:22, pretty [16] - 49:8, 221:4, 340:3, 292:24, 353:20, 111:1, 247:17, 52:19, 127:14, 340:12, 346:7, prose [1] - 430:12 355:18, 367:23, 347:25, 348:10, 347:12, 393:9, 247:19, 247:22, protecting [1] - 40:14 372:15, 375:11, 247:25, 337:24 348:24, 354:12, 418:7, 433:19, protocol [17] - 34:13, 375:17, 375:20, 356:15, 377:10, 441:14 produces [1] - 14:25 34:21, 57:11, 167:3, 376:1, 396:21, 379:17, 407:14, problems [6] - 328:13, producing [2] -190:8, 190:9, 192:8, 397:17, 397:23, 410:22, 426:20, 345:24, 346:6, 337:10, 341:10 192:20, 194:5, 400:10, 417:23, 427:4, 435:21, 346:15, 369:18, products [1] - 346:16 233:24, 234:13, 417:24, 422:5, 455:9 446:14 418:6 professional [1] -255:5, 308:4, 309:7, **psi's** [2] - 65:5, 163:25 previous [5] - 69:4, procedural [1] - 262:9 154:16 309:12, 317:3, 317:6 150:23, 245:6, procedural-type [1] professor [11] protocols [7] - 119:6, psychological [1] -245:7, 245:14 116:25 262:9 150:19, 155:11, 165:15, 190:16, public [11] - 7:24, previously [10] procedure [6] - 28:18, 155:25, 281:2, 193:12, 314:11, 11:6, 35:13, 119:22, 15:25, 92:10, 120:4, 69:14, 308:21, 281:3, 286:17, 314:15 121:2, 153:4, 244:9, 151:4, 153:6, 383:8, 398:18, 347:9, 372:24, prove [2] - 316:15, 247:23, 264:14, 211:25, 311:25, 400:11 433:7, 438:1, 440:17 446:17 332:6, 359:1, 413:10 Professor [14] provide [23] - 10:4, 302:18, 344:11 procedures [15] -Princeton [8] - 33:24, **PUBLIC** [1] - 1:24 6:18, 18:10, 18:14, 150:25, 156:7, 14:17, 15:9, 15:14, Public [8] - 47:6, 281:16, 282:19, 195:13, 328:25, 18:18, 19:7, 19:19, 30:1, 36:21, 36:22, 282:21, 439:25, 365:20, 371:14, 150:9, 227:21, 230:22, 231:13, 37:2, 38:19, 38:23, 261:4, 345:5, 440:2, 440:5, 440:8 371:21, 372:7, 231:15, 233:2, 43:19, 105:7, principal [5] - 270:3, 315:2, 315:3, 412:14, 414:10, 107:20, 107:24, 411:19, 439:16, 270:11, 345:16, 422:11, 439:11, 457:7 315:11, 315:14, 109:10, 121:21, 347:3, 412:3 439:25, 440:3 268:17, 268:22, publically [2] - 114:7, 340:14 program [2] - 395:15, 263:11 **Principal** [1] - 155:13 proceed [7] - 6:16, 268:23, 286:20, 315:11, 327:6, 349:1 publication [1] principle [4] - 21:16, 223:5, 226:5, 396:16 153:18 21:17, 158:8, 438:5 226:19, 342:25, programs [1] - 154:5 provided [22] - 15:19, principles [2] - 157:6, 343:6, 343:15 prohibited [2] - 46:3, 38:1, 38:2, 39:13, publicity [1] - 280:5 157:9 proceeded [2] -256:22 43:19, 101:17, published [4] -Prioleau [5] - 160:3, 229:19, 327:23 project [6] - 152:22, 102:9, 102:24, 280:23, 340:25, 103:3, 104:20, 368:12, 370:18 240:6, 258:19, proceeding [11] - 8:6, 156:13, 347:12, 105:3, 105:6, 108:7, 259:8, 292:22 28:23, 31:12, 38:12, 347:21, 347:22, pulled [1] - 382:11 108:12, 110:13, privacy [1] - 283:13 40:19, 104:10, 348:5 pumped [3] - 318:24, 110:14, 110:21, 158:12, 182:15, 319:4, 319:12 private [4] - 43:16, projects [1] - 153:1 90:25, 152:5, 322:22 219:14, 270:8, promoted [1] - 154:19 337:8, 339:13, punish [1] - 19:11 271:11 339:16, 357:24, privilege [11] - 266:14, punished [4] - 9:14, promulgate [2] - 9:19, 408:9 267:7, 267:16, proceedings [2] - 6:8, 46:17 9:16, 9:25, 45:22 provides [2] - 41:1, 6:23 268:3, 268:12, pronounce [1] punishment [2] - 46:4, proceeds [1] - 227:13 159:14 336:21 268:14, 269:13, 373:13 providing [2] - 14:15, process [34] - 48:24, 270:21, 271:4, pronounced [1] puny [2] - 164:21, 278:23, 311:25 49:9, 49:24, 50:6, 109:11 415:14 193:5 proving [1] - 201:18 50:22, 51:24, 52:18, privileged [6] - 265:7, **proof** [6] - 31:9, 31:10, purely [2] - 32:23, 52:19, 52:21, 53:22, proximity [1] - 280:11 265:10, 266:6, 324:15, 324:16, 415:10 266:13, 270:1, 279:1 53:23, 54:11, 60:22, proxy [2] - 416:4, 324:22, 324:24 purported [1] - 421:4 65:9, 67:16, 68:13, privy [1] - 138:7 416:9 proper [7] - 14:18, purporting[1]-69:3, 69:7, 69:21, Prize [2] - 152:16, 19:12, 21:12, 27:16, **psi** [54] - 58:14, 58:17, 424:21 188:21 70:23, 72:18, 76:12, 63:5, 63:14, 63:20, 85:8, 246:16, 437:14 purpose [12] - 81:8, 77:19, 90:12, 146:1, 73:6, 97:22, 114:8, prize [1] - 330:15 properly [6] - 50:12, 105:7, 108:6, 153:3, 146:25, 147:13, 115:7, 140:7, 163:7, probability [4] -177:7, 254:20, 156:19, 204:20, 189:25, 231:2, 163:8, 163:11, 209:22, 369:23, 254:25, 351:18, 206:7, 253:5, 251:13, 251:14, 163:12, 169:12, 409:24, 435:13 270:19, 353:22, 424:4 398:10, 411:1, 416:6 171:10, 171:20, probable [11] - 10:8, properly-functioning 415:1, 443:23 processes [5] - 54:13, 173:2, 174:17, [1] - 351:18 purposefully [1] -10:15, 31:23, 38:11, 54:20, 76:15, 122:2, 175:12, 175:20, 273:13, 274:16, proposal [3] - 344:8, 325:8 154:23 175:21, 177:19, 344:14, 344:21 purposely [1] - 35:9 303:6, 317:11, 177:22, 184:6, produce [6] - 14:21, 324:19, 325:5, 325:7 propose [2] - 344:1, purposes [2] - 108:4,

<del>58 of 17</del>2age 40 ument 28-230 quarterback [32] -267:16 quite [9] - 39:4, 40:22, 456:15 219:5, 243:23, pursuant [3] - 263:19, 53:5, 211:9, 399:23, 244:9, 244:15, 12:10, 23:21, 23:23, rating [1] - 135:3 244:16, 244:23, 272:3. 272:10 49:5, 50:9, 75:15, 441:6, 445:7, raw [12] - 159:20, pursue [2] - 395:13, 79:21, 79:23, 80:1, 445:25, 446:16 161:7, 161:13, 244:24, 270:13, 452:24 80:4, 80:8, 80:19, quote [11] - 162:13, 223:14, 224:1, 294:10, 296:3, 296:11, 296:14, push [2] - 248:7, 80:23, 81:1, 81:5, 172:3, 175:21, 224:4, 224:14, 316:5, 316:6, 81:8, 127:10, 199:19. 200:1. 225:8. 287:6. 249:1 348:25, 355:17, 127:16, 127:19, pushing [1] - 248:18 208:12, 208:22, 287:13, 287:17, 357:20, 370:11, put [64] - 13:11, 13:22, 127:23, 128:2, 254:7, 254:8, 289:16 377:17, 388:24, 14:8, 21:7, 30:8, 128:6, 128:7, 262:18, 316:16 Ray [1] - 27:1 128:11, 128:15, quoted [1] - 248:6 RDR [2] - 1:23, 457:12 409:4, 409:12, 42:8, 73:5, 83:18, 410:4, 426:13, 128:25, 129:7, 115:24, 120:5, quotes [2] - 169:21, re [1] - 417:2 426:14, 426:18, 246:2, 257:15, 201:8 122:22, 122:23, re-looked [1] - 417:2 426:19 257:19, 273:13, 161:21, 163:22, quoting [3] - 172:10, reach [13] - 165:12, reader [1] - 264:22 171:18, 186:17, 332:22 248:3, 264:15 181:23, 182:5, 192:1, 210:23, quarterbacks [14] readers [2] - 325:8, 185:15, 190:19, 12:3, 64:5, 64:9, R 430:11 215:9, 246:17, 207:23, 208:14, 64:13, 64:20, 65:15, Reading [3] - 172:8, 246:20, 248:8, 215:23, 225:15, rabbit [2] - 219:2, 65:22, 80:6, 80:7, 356:18, 357:22 257:24, 265:3, 285:5, 309:4, 329:14 119:23, 119:24, 273:19, 276:19, 323:17, 354:3 reading [26] - 27:23, 258:4, 258:9, 258:10 306:22, 319:1, race [1] - 284:4 reached [25] - 66:8, 114:6, 186:21, 338:17, 339:4, questioned [1] radar [1] - 115:6 189:23, 204:12, 182:22, 188:14, 341:2, 349:20, 300:12 204:25, 205:6, radio [4] - 74:13, 207:19, 211:17, 206:13, 207:6, 352:11, 352:23, questioning [2] -74:22, 74:25, 78:10 280:9, 280:20, 360:12, 372:18, 271:3, 395:10 208:20, 210:7, rained [2] - 70:8, 280:22, 315:22, 211:3, 218:19, 375:20, 380:12, questions [59] - 11:1, 76:19 315:23, 317:24, 380:18, 380:19, 11:2, 13:17, 99:16, raining [1] - 406:22 224:25, 244:20, 347:13, 354:6, 380:24, 381:1, 99:17, 100:2, 100:5, 245:4, 246:6, rainy [2] - 236:15, 354:10, 358:11, 381:3, 381:9, 103:16, 108:25, 248:22, 295:2, 384:6 361:8, 363:17, 364:13, 374:24, 381:16, 391:22, 112:16, 113:9, raise [5] - 135:23, 366:13, 371:17, 388:25, 390:1, 393:13, 397:22, 124:7, 124:9, 136:22, 136:25, 373:6, 416:14, 408:6, 409:13 407:8, 411:7, 425:4, 124:13, 139:3, 137:25, 138:18 427:13, 444:23, 425:12, 425:13, 143:9, 143:17, 447:25, 448:9 readings [7] - 184:24. raised [10] - 34:2, 428:10, 429:12, 143:23, 144:2, reaching [2] - 194:11, 185:1, 185:2, 185:8, 42:16, 73:19, 429:13, 429:16, 145:23, 189:1, 185:10, 185:24, 317:8 103:16, 143:17, 200:5, 222:12, 237:14 429:18, 430:20, 143:23, 144:2, react [8] - 56:13, 431:14, 436:3, 233:17, 242:14, reads [14] - 162:3, 145:19, 190:2, 58:15, 58:24, 437:11, 443:23, 242:16, 251:6, 162:4, 184:21, 329:13 220:25. 248:23. 445:24 251:9, 252:12, 200:16, 216:21, raises [1] - 28:2 249:1, 249:3, 249:6 puts [1] - 409:23 253:8, 255:8, 294:9, 294:11, ran [6] - 202:23, reacted [1] - 72:20 putting [7] - 26:4, 259:13, 266:4, 294:20, 294:22, reaction [15] - 51:17, 203:2, 349:23, 266:6, 267:24, 302:19, 316:2, 38:11, 69:12, 76:21, 52:11, 74:16, 359:4, 367:1, 382:25 295:16, 314:9, 327:5, 334:6, 377:14 182:8, 230:15, 381:6 randomly [2] - 118:12, 359:20, 359:23, 318:3, 321:19, ready [6] - 7:10, **puzzled** [1] - 39:4 361:17, 363:24, 119:16 322:4, 323:23, Pye [1] - 347:13 128:16, 128:18, 368:20, 370:7, range [17] - 115:22, 326:18, 331:13, 130:14, 313:2, 370:22, 414:20, 116:6, 118:9, 340:16, 341:3, 373:11 Q 445:20, 446:8, 121:12, 152:10, 342:16, 395:20, real [6] - 152:10, 447:4, 447:5 153:16, 177:10, **QB** [1] - 127:6 395:21, 402:11, 211:6, 337:25, 177:24, 185:16, reactions [2] - 371:22, 406:1, 406:14, qualify [2] - 337:17, 340:8, 433:19, 422:14 185:17, 206:2, 408:2, 411:14, 433:19 433:23 279:13, 355:21, read [49] - 41:10, 96:6, 427:15, 437:24, quality [1] - 154:8 real-world [1] - 433:23 114:5, 123:25, 357:22, 365:2, 448:15, 453:25, quantified [1] - 357:3 realistic [5] - 206:3, 365:6, 365:9 135:25, 136:9, 454:18, 455:25 quarrel [1] - 304:1 391:1, 408:12, 136:14, 149:9, ranges [4] - 169:16, quibble [1] - 216:11 409:10, 409:22 quarreling [4] - 219:9, 177:11. 362:23. 173:15, 184:21, quick [1] - 99:25 219:22, 219:23, 197:1, 201:7, realities [1] - 363:12 387:6 quickly [5] - 49:10, realize [1] - 164:21 308:19 rapid [1] - 350:7 201:11, 201:23, 53:19, 53:20, 98:10, quarter [6] - 230:5, realized [1] - 443:7 202:6, 202:8, rate [1] - 351:17 443:10 230:6, 230:8, 236:1, 208:17, 210:12, really [57] - 9:20, rather [4] - 128:21, quit [1] - 323:22 236:22, 382:17 215:8, 218:15, 12:16, 20:22, 37:19, 188:9, 395:22,

ument 28-230 <del>59 of 17</del>2age 41 case 1.15-cv TO-KIMIR-2CI 06/04/15 44:2, 49:6, 50:6, 88:21, 200:24, 421:1 281:5 403:18, 405:3, 405:4 333:11, 397:6 50:7, 53:8, 54:22, referenced [8] rebuttal [2] - 30:10, reconcile [1] - 358:4 reddish [1] - 405:3 56:25, 59:21, 69:6, 330:13 reconsider [4] -**REDIRECT** [6] - 139:4, 111:14, 132:22, 73:16, 74:5, 84:5, recalculate [1] - 222:3 335:23, 336:4, 255:9, 340:19, 134:10, 134:13, 109:9, 118:16, 336:7, 339:8 402:20, 438:3, 134:24, 135:6, recalibrated [1] -120:10, 120:13, 145:12, 203:4 374:13 reconsidered [1] -454:20 120:16, 122:10, redirect [2] - 112:16, references [1] receive [4] - 103:7, 336:9 134:16, 135:14, 196:18, 196:22, reconstructing [1] -139:3 130:23 156:1, 163:21, 265:15 450:2 Redirect [2] - 5:14, referred [13] - 69:3, 164:21, 165:19, received [11] - 100:17, record [44] - 6:7, 6:10, 5:21 100:18, 100:23, 171:13, 192:8, 7:6, 21:9, 35:13, 103:3, 104:4, 126:23, 157:18, redo [1] - 419:1 209:18, 217:9, 104:17, 107:18, 42:8, 47:12, 97:24, 166:13, 173:16, redraft [1] - 332:13 223:12, 283:16, 211:18, 211:23, 98:21, 149:4, 109:1, 230:7, reduce [1] - 93:25 291:3, 291:7, 291:8, 260:13, 335:11, 150:15, 189:17, reduced [1] - 224:10 324:2, 352:7, 291:11, 293:1, 347:6, 348:23 189:18, 192:2, 371:20, 426:10 reduction [3] - 199:24, 297:23, 309:13, 215:9, 216:17, referring [20] - 78:23, receiver [1] - 53:8 238:15, 327:19 316:3, 329:22, 95:2, 101:7, 105:18, 226:8, 228:2, receivers [2] - 26:4, ref [4] - 114:22, 338:24, 356:3, 231:16, 232:17, 112:1, 112:24, 53:7 123:15, 217:11, 360:2, 393:16, 113:5, 133:22, 233:3, 233:8, receivers' [1] - 396:12 217:24 399:10, 417:13, receiving [2] - 8:1, 234:24, 235:5, 135:1, 136:3, refer [17] - 56:23, 418:21, 421:5, 235:11, 235:14, 197:19, 198:19, 53:6 61:24, 64:18, 78:3, 422:22, 424:24, 237:9, 261:10, 202:20, 205:21, Recess [6] - 100:1, 79:14, 79:18, 94:15, 438:18, 444:9, 247:10, 359:15, 271:8, 311:7, 149:3, 194:19, 169:8, 172:19, 449:22 404:24, 430:3, 318:25, 338:19, 260:24, 345:1, 177:17, 198:18, Realtime [1] - 457:13 340:6, 340:10, 440:15 395:25 203:12, 208:7, reanalyze [1] - 421:12 refers [11] - 102:8, 340:11, 343:22, recognize [5] - 25:16, 209:6, 209:7, 212:5, rear [1] - 251:19 343:25, 345:10, 102:12, 102:18, 184:20, 237:17, 440:14 reargue [1] - 27:17 357:21, 411:25, 105:10, 132:9, 298:14, 298:17 referee [17] - 18:4, rearranged [1] -413:21, 415:17, 135:8, 259:5, 259:7, recognized [3] -119:7, 119:10, 259:11, 260:4, 157:15 439:22, 456:17 315:18, 328:1, 119:11, 122:12, reason [41] - 10:1, record-keeping [2] -409:16 452:20 122:17, 215:25, 10:2, 14:17, 16:14, 340:10. 340:11 reflect [3] - 105:24, 217:3, 218:6, recognizing [3] -46:11, 56:7, 97:19, recorded [12] - 18:20, 140:14, 427:7 232:23, 232:24, 182:16, 406:21, 107:12, 109:9, 191:23, 235:2, reflected [3] - 140:16, 364:8, 376:5, 456:21 110:23, 114:25, 235:9, 235:17, 198:9, 215:2 377:20, 399:6, recollect [2] - 299:19, 118:7, 125:7, 126:8, 288:18, 288:23, refresh [4] - 67:7, 401:1, 402:5 339:17 126:22, 128:12, 375:14, 409:6, 201:1, 225:5, 253:16 recollection [27] referees [34] - 59:2. 131:15, 132:14, 413:20, 415:23, refs [4] - 92:21, 59:19, 63:19, 73:5, 67:7, 139:21, 186:7, 134:9, 176:1, 176:4, 429:15 121:14, 216:8, 308:9 73:20, 82:3, 97:10, 201:1, 225:5, 237:11, 242:15, recording [1] - 231:23 refusal [3] - 11:8, 119:1, 119:6, 253:17, 253:21, 278:6, 285:13, records [14] - 39:19, 38:18, 304:13 121:22, 121:24, 259:22, 259:23, 305:3, 318:13, 43:22, 44:10, 76:1, refuse [2] - 89:21, 292:4, 292:8, 122:8, 122:13, 335:16, 336:10, 89:12, 104:8, 122:15, 231:15, 341:3 297:15, 299:23, 360:20, 361:1, 104:15, 110:25, refused [1] - 44:25 231:18, 237:7, 300:18, 302:22, 369:2, 415:8, 139:16, 140:13, 276:17, 276:18, refusing [1] - 45:4 303:12, 303:18, 423:15, 430:20, 313:7, 319:1, 308:8, 308:22, regard [2] - 417:9, 305:18, 305:23, 431:13, 437:13, 331:15, 340:5 308:7, 308:12, 314:18, 376:1, 426:6 446:12, 451:17, recreate [1] - 352:21 386:17, 386:21, 313:10, 319:6, regarding [19] - 8:7, 453:23, 454:4 320:16, 332:7, RECROSS [3] -398:15, 398:20, 11:22, 26:21, 29:1, reasonable [17] -143:12, 259:15, 399:19, 399:22, 332:11, 335:3 31:13, 48:12, 64:6, 29:14, 31:16, 34:5, 408:4 recollections [3] -399:24, 400:3, 66:11, 99:8, 114:1, 37:10, 38:22, 66:9, Recross [2] - 5:14, 400:5, 400:7 289:14, 289:19, 114:5, 123:14, 66:15, 210:7, 297:1, 5:21 referees' [3] - 93:9, 289:22 234:7, 247:4, 303:25, 317:16, **RECROSS-**122:2, 228:18 248:21, 249:20, recommend [1] -317:18, 318:1, **EXAMINATION** [3] reference [14] - 63:12, 250:14, 337:8, 281:17 325:1, 325:10, 143:12, 259:15, 93:18, 102:4, 125:1, 371:25 recommendation [2] -433:14, 456:8 408:4 125:24, 129:13, regardless [5] - 66:14, 243:19, 281:13 reasonably [2] recruited [1] - 347:8 130:20, 139:11, 200:22, 332:25, recommendations [2] 35:17, 36:12 164:10, 175:15, 333:1, 333:2 - 243:17, 244:19 recuse [1] - 8:4 reasons [4] - 21:17, 240:24, 316:25, red [4] - 299:11, register [1] - 378:22 recommended [1] -

ument 28-230 <del>60 of 17</del>2age 42 TO-KMR-3CI 06/04/15 Registered [1] -81:20, 87:14, 93:13, 38:16, 39:8, 40:10, 248:3, 250:19, **Relations** [1] - 2:17 93:22, 96:5, 99:15, 260:12, 262:16, 457:13 relationship [4] - 83:2, 40:25, 41:10, 41:18, registered [2] - 13:1, 135:20, 138:5, 140:1 101:5, 107:4, 41:21, 41:22, 41:25, 262:23, 262:25, 115:6 relationships [1] -109:16, 109:24, 42:9, 43:4, 44:7, 263:4, 263:23, 110:3, 110:4, 48:16, 52:9, 61:19, 264:23, 265:4, 13:25 regression [6] -110:11, 111:4, 62:2, 62:5, 62:16, 265:5, 265:15, 370:25, 371:5, relative [7] - 161:12, 64:4, 66:6, 78:6, 265:17, 266:3, 114:6, 115:15, 371:11, 380:11, 163:16, 191:1, 267:4, 267:19, 118:15, 118:16, 79:18, 81:22, 83:4, 423:8, 429:23 193:12, 351:1, 84:11, 84:12, 89:5, 268:1, 268:8, regular [1] - 88:18 356:22, 393:5 120:1, 121:7, 124:5, regulation [2] - 249:6, relatively [6] - 181:1, 126:13, 127:14, 91:12, 91:25, 94:9, 269:10, 269:16, 127:20, 128:4, 94:13, 97:18, 97:23, 269:23, 270:13, 318:24 182:18, 182:20, 111:14, 123:17, 272:2, 272:12, 128:16, 130:11, regulations [2] -218:15, 435:5, 132:4, 132:23, 123:18, 123:21, 272:25, 273:9, 282:21, 334:13 435:22 123:25, 124:4, 273:22, 274:1, 134:14, 191:16, reinflated [2] - 176:16, release [5] - 261:25, 193:10, 209:25, 124:12, 124:13, 274:4, 274:12, 262:17, 264:1, 289:5 274:21, 275:21, 253:2, 253:13, 124:23, 126:3, reinflating [1] - 235:13 273:16, 344:6 287:17, 303:21, 126:16, 129:11, 276:18, 277:10, released [1] - 261:24 reinflation [5] -312:25, 381:13, 131:9, 131:16, 278:22, 279:10, relevance [1] - 278:24 176:23, 193:14, 387:5, 415:2, 418:8, 131:23, 134:2, 285:16, 290:7, 381:8, 381:10, relevancy [1] - 293:1 433:19, 452:17 134:10, 134:13, 291:10, 291:25, relevant [20] - 11:3, 381:18 remove [1] - 425:20 134:25, 135:5, 293:18, 294:15, **REISNER** [42] - 3:17, 39:14, 39:19, 43:24, 135:7, 135:13, 300:3, 300:17, render [3] - 286:4, 100:19, 139:15, 100:4, 100:7, 104:6, 323:3, 324:7 136:1, 136:9, 300:20, 301:6, 105:13, 136:2, 159:16, 183:22, renders [2] - 324:8, 136:14, 136:19, 301:8, 302:6, 302:7, 136:16, 136:20, 206:25, 220:8, 136:20, 137:25, 302:14, 302:16, 425:24 138:25, 143:10, 220:15, 271:5, 138:7, 138:22, 302:19, 303:8, renovation [1] - 129:6 143:13, 145:21, 279:3, 323:2, 332:3, 140:12, 140:17, 303:9, 308:12, renovations [1] -192:13, 194:17, 335:24, 432:23, 144:8, 159:24, 308:13, 308:20, 128:5 194:21, 198:23, 434:14, 441:5, 441:6 162:14, 162:25, 309:17, 315:5, reorganize [1] -222:1, 225:17, reliability [1] - 190:12 166:20, 169:6, 316:14, 318:9, 160:22 345:2, 345:8, 373:8, reliable [22] - 17:24, 173:11, 173:15, 319:4, 319:8, 319:9, rep [1] - 252:1 402:19, 402:21, 158:5, 158:16, 319:10, 319:19, 176:16, 177:9, repeat [2] - 371:1, 408:1, 409:7, 164:24, 194:8, 177:10, 182:2, 319:20, 320:2, 409:12, 409:16, 194:13, 282:9, 371:3 184:24, 188:6, 320:23, 324:10, 411:15, 411:17, repeated [4] - 336:11, 285:14, 285:16, 188:20, 189:23, 324:11, 325:21, 336:15, 350:7, 351:8 411:23, 427:15, 285:18, 286:5, 191:10, 197:2, 325:25, 326:11, repeatedly [3] -438:1, 438:4, 439:9, 301:23, 316:13, 198:24, 199:1, 326:22, 330:2, 439:11, 439:13, 316:18, 350:3, 355:18, 377:14, 199:13, 199:17, 330:4, 330:5, 330:9, 439:20, 448:11, 426:22 393:21, 393:24, 200:12, 200:15, 330:18, 330:19, 450:9, 454:19, 394:22, 395:1, replicate [10] - 173:23, 201:7, 201:23, 331:2, 340:22, 454:21, 455:23 396:18, 410:25, 435:24, 436:7, 202:6, 202:8, 341:1, 350:13, Reisner [9] - 270:4, 436:12 417:14, 419:12, 202:21, 202:25, 350:16, 353:8, 270:6, 270:10, 419:13, 423:4, reliably [2] - 355:12, 204:6, 204:12, 354:12, 359:13, 270:15, 279:15, 355:17 423:10, 424:18, 204:25, 205:6, 360:12, 368:11, 280:13, 281:3, 432:6 relied [4] - 8:18, 205:17, 205:20, 368:12, 368:14, 324:12, 329:22 37:22, 243:8, 308:6 replicated [3] -206:19, 208:10, 368:23, 369:25, reject [4] - 178:4, 158:13, 359:5, rely [9] - 29:9, 31:2, 208:21, 209:11, 370:12, 370:18, 303:11, 303:14, 424:16 31:3, 110:6, 208:13, 209:20, 209:21, 370:19, 370:25, 304:12 **REPLY** [1] - 5:7 208:15, 225:8, 211:4, 214:9, 371:15, 371:20, rejected [14] - 8:5, report [313] - 8:19, 285:4. 336:1 214:13, 214:14, 371:23, 373:3, 295:9, 304:5, 304:9, 8:25, 10:3, 10:7, relying [5] - 8:23, 218:25, 222:20, 374:2, 374:6, 304:11, 306:4, 85:4, 85:6, 224:14, 11:6, 15:5, 16:5, 224:13, 224:19, 391:22, 392:12, 306:5, 306:6, 306:8, 17:6, 17:7, 25:21, 224:15 225:7, 229:3, 392:22, 397:7, 306:13, 306:14, remaining [2] -30:6, 30:7, 30:9, 242:24, 243:7, 402:23, 409:1, 307:23, 307:24 30:14, 30:17, 31:3, 229:15, 301:16 243:13, 243:20, 411:7, 411:12, rejecting [2] - 303:15, 32:1, 32:7, 32:17, remains [4] - 176:18, 244:3, 244:9, 421:25, 422:21, 32:22, 32:24, 33:11, 306:20 300:24, 372:3, 420:6 244:10, 244:11, 422:23, 423:5, rejection [1] - 308:14 34:9, 34:12, 34:15, remember [54] - 12:1, 244:16, 244:21, 423:12, 426:3, related [2] - 101:3, 34:24, 35:5, 36:16, 26:25, 44:24, 45:3, 426:5, 427:9, 245:4, 246:23, 36:24, 37:2, 37:14, 369:21 68:9, 70:9, 78:11, 247:2, 247:10, 427:10, 428:1, 37:16, 37:25, 38:3, relates [1] - 91:21 80:16, 80:17, 81:18, 247:23, 247:24, 429:7, 442:7,

ument 28-230 <del>.**61 of 17</del>2</del>age 43</del>** Jase 1:15 06/04/15 444:11, 444:15, 336:4, 336:11, 405:12, 405:15, results [46] - 158:5, rid [9] - 43:13, 87:9, 444:16, 444:23, 336:17, 337:13, 406:15, 406:25, 158:16, 162:19, 87:22, 87:25, 88:5, 445:3. 448:3. 342:1, 410:5 407:12, 408:7, 165:9, 166:8, 88:9, 88:19, 90:14, 448:23, 450:1, requested [4] -412:24, 416:12, 166:21, 167:4, 91:5 451:13, 451:17, 149:21, 304:14, 422:12, 441:9, 167:6, 173:12, ridiculous [1] - 74:19 443:20, 447:24, 451:18, 454:24, 179:19, 182:9, 336:2, 339:11 **RIFKIND** [1] - 3:15 454:25, 455:1, requesting [1] -448:7, 449:6 187:16, 188:11, **Rifkind** [1] - 263:13 455:16 respected [3] - 16:2, 191:15, 191:16, 333:21 right-hand [3] -**REPORTED** [1] - 1:22 requests [7] - 101:2, 280:10. 330:7 191:17, 205:18, 160:23, 240:5, reported [10] - 92:6, 113:1, 113:7, 313:6, respectful [1] - 305:5 209:23, 210:4, 405:16 198:3, 224:12, respectfully [6] -211:22, 212:5, 331:14, 332:2, rightly [1] - 340:4 212:7, 358:5, 411:3, 411:5, 337:12 305:4, 305:5, rigorous [3] - 49:8, require [3] - 113:14, 364:21, 371:9, 417:15, 418:23, 305:10, 333:24, 52:21, 70:17 373:23, 388:13, 419:13, 420:12, 218:2, 311:13 335:13, 336:9 rise [5] - 292:21, 389:5, 390:5, 427:9 required [3] - 149:6, respects [1] - 414:25 446:16, 449:18, Reporter [2] - 457:13, 233:21, 367:22 respond [5] - 42:15, 392:19, 393:16, 450:13 457:13 403:3, 403:13, 86:10, 334:21, requirement [1] -Risk [1] - 412:23 408:13, 409:6, reporter [2] - 6:6, 7:7 239:21 335:19, 438:10 Rita [1] - 307:5 409:11, 420:9, reporting [2] - 166:8, responded [1] - 85:3 requirements [3] -**Riveron** [3] - 251:20, 423:4, 423:6, 166:12 65:6, 239:20, 240:12 response [16] - 6:12, 319:25, 320:11 424:16, 424:18, reports [17] - 243:24, requires [1] - 438:6 42:25, 335:10, road [1] - 268:14 244:7, 244:14, 425:25, 431:19, research [2] - 440:18, 341:19, 359:20, **Rob** [1] - 121:6 431:25, 432:3, 320:14, 320:15, 441:1 359:23, 361:17, ROBERT [2] - 4:14, 442:17 321:1, 321:13, 363:24, 368:20, researcher [3] - 17:2, 5:22 retain [1] - 189:20 321:16, 330:22, 370:7, 370:22, 158:2, 186:22 Robert [6] - 13:19, retained [12] - 33:12, 330:24, 330:25, 414:20, 426:3, resend [1] - 341:17 14:5, 149:7, 225:24, 33:17, 33:19, 331:5, 331:6, 411:4, 445:20, 446:8, 447:5 reserve [1] - 20:11 345:2, 345:11 422:16, 448:3, 448:7 156:23, 263:12, responses [3] reset [1] - 91:7 Robinson [2] - 24:5, 279:25, 280:4, represent [9] - 62:15, 371:21, 404:10, resist [2] - 219:12, 250:3 312:24, 322:7, 92:5, 107:10, 154:3, 422:14 455:24 Robyn [1] - 300:8 322:24, 327:5, 349:1 236:5, 247:21, responsibilities [7] resolve [1] - 302:17 robyn [2] - 300:16, retaining [1] - 279:23 284:8, 323:6, 333:6 123:5, 123:14, resolving [1] - 456:12 306:18 representation [2] return [1] - 370:5 137:20, 154:1, resources [3] - 282:3, Rodgers [10] - 248:3, 287:22, 323:9 reveal [1] - 265:10 154:2, 154:12, 228:9 282:14, 283:9 248:6, 248:14, revealing [1] - 206:14 representative [2] responsibility [6] respect [68] - 8:25, 248:17, 249:1, 245:18, 393:18 reverse [1] - 388:17 31:22, 145:3, 145:8, 18:17, 20:7, 44:14. 249:8, 254:4, reversed [2] - 45:6, representatives [2] -154:10, 228:11, 45:6, 100:11, 254:12, 254:17, 313:6. 336:24 413:3 160:25 113:10, 179:12, 254:24 represented [5] responsible [15] review [19] - 102:2, 223:25, 233:1, ROGER [2] - 1:19, 2:4 110:20, 267:4, 10:10, 11:21, 21:23, 102:9, 102:18, 242:23, 250:17, role [25] - 27:16, 104:21, 107:16, 271:11, 314:2, 314:4 40:14, 46:9, 46:16, 261:19, 261:21, 123:20, 164:18, 110:7, 113:4, 49:21, 69:5, 134:20, representing [2] -262:15, 267:2, 265:25, 267:11, 270:7, 270:16 154:4, 154:7, 202:5, 209:19, 245:3, 267:9, 267:18, 268:7, 301:10, 228:23, 229:6. 330:24, 332:1. represents [2] - 256:4, 269:18, 273:4, 303:10, 310:4, 256:5 345:18 349:9, 352:19, 273:7, 273:19, 322:2, 322:23, responsive [4] -363:4, 368:11, reproduce [2] - 371:9, 311:8, 314:6, 323:19, 326:12, 422:10, 444:11, 112:25, 113:6, 423:6 318:22, 322:13, 326:13, 334:11, 444:14, 448:2 304:14, 336:3 reputation [1] -322:16, 326:4, 345:18, 347:23, rest [2] - 24:18, 454:12 reviewed [8] - 29:23, 312:18 330:21, 334:10, 348:8, 348:19, 103:3. 112:23. restriction [1] - 211:2 request [29] - 84:23, 337:3, 341:10, 412:24, 413:7, 85:2, 85:8, 85:13, 113:2, 249:22, Result [1] - 139:14 348:9, 353:6, 441:9, 442:13, 443:2 269:25, 331:5, result [18] - 17:14, 87:24, 109:4, 109:8, 355:24, 356:1, Roman [5] - 124:24, 437:11 109:14, 109:17, 356:16, 356:25, 17:20, 17:24, 18:19, 200:15, 300:22, reviewing [3] - 348:2, 110:8, 261:22, 168:22, 176:5, 359:13, 361:5, 327:4, 350:15 371:14, 448:6 305:11. 311:8. 361:7, 363:14, 193:20. 201:10. Ron [1] - 24:13 revised [1] - 161:22 313:18, 331:22, 363:16, 366:11, 202:13, 202:17, room [92] - 17:12, 333:11, 333:21, 367:14, 367:19, 203:3, 210:9, rewet [1] - 383:17 18:22, 19:3, 19:5, rewetting [1] - 383:14 333:24, 335:11, 287:11, 317:4, 368:1, 368:14, 22:25, 23:1, 34:14, 335:12, 335:20, 403:10, 411:3, Rice [3] - 27:1, 36:6, 371:16, 372:8, 72:3, 79:21, 79:23, 335:23, 335:25, 445:9, 446:12 36:7 373:4, 380:8, 404:7, 80:1, 80:4, 80:8,

cument 28-230 <del>62 of 17</del>2age 44 ase 1.15-cv 06/04/15 80:19, 80:23, 81:1, rubbed [2] - 401:16, 63:18, 119:3, 145:3, 312:21, 332:18, S 145:6, 310:21, 333:2, 333:22, 81:5, 81:8, 82:3, 402:3 83:12, 84:4, 93:10, rubbing [14] - 328:12, sample [5] - 176:2, 333:2, 337:20 337:22 100:3, 120:11, 397:19, 397:24, 182:19, 419:8, scholarship [1] searches [2] - 336:2, 122:1, 122:5, 399:2, 399:12, 151:8 337:18 435:17, 439:3 122:15, 123:7, 399:25, 400:1, **School** [3] - 15:23, season [11] - 24:18, **samples** [2] - 18:13 123:20, 127:6, 400:2, 400:11, 150:18, 151:5 76:11, 77:4, 113:21, **San** [1] - 412:15 127:10, 127:16, 400:13, 400:14, sanctuary [1] - 80:2 school [7] - 16:1, 124:3, 129:8, 133:2, 127:19, 127:23, 400:21, 400:22, 151:4, 153:25, 133:9, 135:8, sand [1] - 53:11 128:2, 128:6, 128:7, 401:6 154:6, 154:7, 245:23, 401:8 sandpaper [1] - 53:2 128:8, 128:11, rule [28] - 18:8, 23:17, season's [1] - 334:8 154:11, 154:13 sat 131 - 172:14. 128:15, 128:25, 25:21, 26:23, 27:4, Schultz [1] - 150:25 seasons [1] - 47:20 311:17, 313:15 129:7, 140:3, 170:7, 35:19, 36:20, 58:18, Science [2] - 346:21, seated [1] - 270:4 satisfied [1] - 288:12 170:13, 171:12, 59:8, 61:8, 63:19, 346:23 Seattle [1] - 128:17 satisfy [1] - 110:8 171:16, 171:22, 64:4, 64:6, 64:22, science [18] - 155:6, sec [2] - 129:18, 134:1 **saturation** [1] - 382:22 172:12, 172:14, 65:11, 65:15, 66:13, 156:24, 165:2, second [53] - 13:10, Saturday [4] - 133:15, 172:24, 172:25, 66:16, 66:18, 165:3, 238:18, 14:13, 16:4, 16:11, 146:12, 147:1, 184:9, 189:16, 113:10, 113:21, 284:13, 303:22, 22:7, 29:4, 33:19, 333:19 220:18, 229:19, 115:11, 115:18, 316:21, 317:4, 73:11, 73:15, 73:18, sauna [2] - 120:6, 230:11, 231:16, 119:12, 122:20, 317:7, 317:20, 74:4, 102:18, 126:2, 120:8 233:9, 234:24, 122:21, 329:19 327:11, 329:19, 130:5, 130:14, **save** [1] - 343:7 235:3, 251:18, ruled [9] - 27:16, 330:9, 330:11, 131:20, 139:11, saw [28] - 124:5, 251:19, 276:13, 27:20, 242:13, 449:3, 452:23 149:16, 164:1, 135:12, 136:8, 276:21, 290:18, 296:24, 308:20, Sciences [1] - 412:4 168:5, 169:18, 136:17, 137:10, 290:25, 291:5, 309:11, 321:15, scientific [38] - 41:25, 176:8, 176:15, 137:22, 138:15, 291:6, 292:14, 329:17 156:21, 156:25, 179:24, 200:15, 138:21, 192:23, 292:18, 292:20, Rules [1] - 99:10 157:6, 157:9, 205:21, 224:24, 240:20, 270:9, 307:19, 308:10, rules [26] - 22:17, 158:11, 159:16, 226:12, 229:16, 289:15, 295:3, 314:22, 352:24, 33:16, 35:2, 35:8, 165:14, 169:7, 230:3, 230:5, 230:6, 295:4, 357:12, 358:2, 365:3, 35:11, 35:21, 36:16, 172:21, 173:25, 230:8, 236:1, 360:8, 362:15, 383:21, 387:17, 41:9, 59:24, 66:11, 182:12, 182:15, 236:22, 238:20, 362:25, 374:11, 388:13, 389:4, 113:13, 114:1, 183:13, 183:23, 263:10, 273:10, 380:13, 402:5, 390:5, 390:25, 114:4, 114:5, 164:8, 184:11, 185:19, 300:20, 300:23, 406:18, 413:21, 391:2, 393:8, 394:7, 164:10, 218:1, 194:10, 220:8, 319:16, 332:22, 415:14, 446:22, 401:9, 406:8, 218:8, 227:3, 285:5, 285:9, 337:9, 349:25, 449:10 408:11, 409:10, 248:21, 252:16, 285:15, 286:6, 352:18, 374:11, saying-based [1] -409:21 271:19, 271:21, 381:9, 382:16, 286:8, 303:1, 166:17 rooms [2] - 307:10, 272:5, 323:12, 316:11, 316:15, 397:6, 400:6, scale [8] - 294:12, 353:1 325:13 317:16, 317:18, 432:10, 438:14, 294:19, 294:20, root [1] - 346:14 ruling [13] - 242:9, 327:6, 345:21, 449:6 294:21, 294:22, roughly [5] - 67:5, 242:11, 242:17, 345:23, 346:4, second-team [1] -294:23 173:2, 342:10, 242:18, 242:20, 346:10, 348:21, 332:22 scales [1] - 294:20 418:10, 441:25 265:23, 266:1, 349:1, 452:19, second-to-last [1] -Scenario [5] - 161:11, round [2] - 12:17, 301:11, 303:3, 452:21 200:15 161:12, 162:6, 120:10 303:4, 315:22, scientifically [1] secondarily [1] -162:8, 199:21 rounded [1] - 364:11 324:5, 325:14 159:14 319:21 scenario [1] - 162:10 rounding [1] - 175:18 rulings [1] - 324:10 scientist [2] - 347:19, secondly [2] - 159:3, scenarios [9] - 17:17, rounds [1] - 351:3 run [7] - 88:9, 262:11, 412:3 223:8 166:10, 367:10, route [2] - 281:8, 262:20, 283:21, scientists [3] seconds [23] - 125:5, 369:14, 369:15, 281:23 301:24, 332:18 284:20, 302:25, 126:5, 126:12, 413:24, 413:25, routine [6] - 108:10, running [4] - 262:19, 330:11 129:22, 129:24, 414:1, 429:3 233:21, 233:23, 283:19, 338:6, **score** [1] - 165:25 130:22, 131:1, schedule [4] - 172:19, 234:11, 307:19, 395:17 131:2, 131:12, screen [1] - 88:13 281:19, 281:20, 309:2 runs [1] - 156:17 131:25, 132:20, screens [1] - 153:19 456:8 routinely [2] - 308:17, rushed [1] - 391:8 se [1] - 441:7 134:5, 134:6, scheduled [1] -308:20 Ryan [2] - 229:18, 236:20, 236:22, **Seahawks** [1] - 81:3 281:18 row [1] - 160:14 230:10 390:14, 410:8, sealed [1] - 384:21 schedules [1] -Royer [1] - 155:15 410:16, 410:19, search [10] - 101:6, 171:19 **rub** [5] - 53:8, 353:3, 411:1, 411:11, 101:10, 139:15, Schoenfeld [10] -396:12, 401:9, 402:2 418:10 149:18, 149:20, 44:6, 59:7, 60:15,

ument 28-230 <del>.**63 of 17</del>2</del>age 45</del>** 08/04/15 344:13, 344:23, 280:13, 329:12, 352:18, 353:11, showed [7] - 85:16, secret [1] - 80:2 351:6, 351:14, 332:13, 333:20, 355:10, 361:25, section [2] - 98:16, 115:17, 302:23, 354:11 352:15, 353:13, 334:23, 337:5, 338:7 369:15, 371:22, 352:15, 380:22, security [4] - 88:21, 353:16, 355:7, sentence [19] -374:19, 374:21, 381:24, 382:11 360:3, 360:24, 205:21, 224:20, 378:8, 399:16, shower [1] - 365:3 237:23, 251:25, 361:1, 367:2, 400:10, 414:3, 307:7 224:25, 239:19, showing [4] - 172:17, 373:20, 381:2, 174:11, 226:23, 264:11, 264:12, 436:14, 436:15, see [153] - 6:6, 11:17, 383:3, 396:5, 437:9, 444:15, 19:20, 30:11, 39:5, 264:15, 264:16, 403:1 397:25, 408:14, 444:23, 450:8, 45:17, 62:11, 62:13, 265:3, 331:25, shown [2] - 138:12, 62:20, 62:22, 62:25, 410:23, 414:7, 356:15, 388:25, 453:1, 453:16 139:6 415:17, 420:9, 408:22, 408:23, set-up [1] - 353:11 72:5, 90:18, 92:8, shows [12] - 15:4, 421:11, 442:11, 409:1, 409:12, sets [9] - 189:10, 92:14, 92:23, 93:18, 16:6, 17:1, 43:23, 449:17, 449:18, 409:16, 410:4 193:1, 332:14, 98:11, 98:18, 99:1, 91:1, 158:18, 449:19, 452:23, sentences [1] - 183:4 435:24, 435:25, 99:2, 99:5, 99:11, 169:24, 329:19, 453:4, 453:6, 454:9, 102:4, 102:15, separate [3] - 196:21, 436:6, 436:7, 367:2, 397:14, 103:1, 104:14, 456:23 211:18, 300:21 436:24, 446:21 403:22, 453:7 seeing [9] - 88:14, separately [4] - 197:8, setting [4] - 194:4, 105:22, 111:15, sic [2] - 229:16, 249:5 253:14, 253:15, 283:12, 293:10, 123:17, 123:21, 282:3, 419:6, 419:7 side [13] - 20:19, 265:18, 328:12, September [1] -398:14 124:3, 124:24, 100:3, 204:3, 204:5, 328:13, 356:2, 126:6, 126:20, 333:23 seven [9] - 134:6, 204:6, 210:22, 415:9, 422:6 127:7, 128:21, **sequence** [12] - 160:6, 177:2, 177:21, 211:8, 216:10, 129:19, 129:25, seeking [1] - 110:2 160:7, 168:2, 168:3, 179:6, 196:4, 240:5, 317:14, 130:6, 130:19, select [4] - 50:4, 50:5, 196:12, 196:14, 168:6, 176:11, 317:17, 347:18, 72:23, 77:13 131:13, 131:21, 176:13, 177:21, 229:15, 257:5 403:22 132:12, 134:7, selected [2] - 67:15, seven-and-a-half-180:7, 187:21, sideline [6] - 191:10, 139:14, 139:17, 155:18 417:4, 421:24 minute [1] - 177:2 230:15, 246:14, 140:4, 140:21, selecting [2] - 50:23, sequences [2] several [3] - 172:14, 257:9, 257:14, 260:7 158:3, 159:21, 68:9 177:11, 180:8 239:2, 414:25 sidelines [2] - 230:13, 159:25, 160:13, selection [2] - 67:16, sexting [1] - 44:24 sequencing [2] -247:7 160:22, 164:19, 67:23 190:25, 206:4 sexual [1] - 322:18 sigma [1] - 408:25 165:4, 165:5, selects [1] - 48:20 sequential [2] **shape** [1] - 331:8 sign [5] - 22:17, 83:10, 165:14, 166:12, send [1] - 103:7 327:23, 439:6 share [1] - 443:14 83:15, 83:20, 83:25 171:14, 173:16, sequentially [1] sending [1] - 78:18 shared [3] - 320:25, signature [2] - 239:4, 175:13, 177:3, Senior [3] - 2:7, 2:17, 438:21 321:7, 321:10 240:2 178:5, 178:20, 151:5 series [4] - 197:9, sheet [3] - 59:20, signed [14] - 64:20, 181:6, 188:6, 188:7, senior [2] - 228:22, 350:6, 357:2, 388:4 59:24, 119:4 65:23, 65:24, 83:17, 188:9, 188:10, 229:6 serious [6] - 28:21, 83:22, 84:3, 84:13, shift [4] - 179:19, 192:3, 192:4, 40:12, 42:11, 45:11, sense [19] - 57:1, 417:21, 454:8, 454:9 239:2, 239:6, 240:1, 200:10, 201:3, 73:12, 191:25, 249:3 258:15, 259:1, shifting [1] - 438:18 201:24, 202:5, 192:15, 192:20, served [3] - 153:6, 259:3, 299:22 **shock** [1] - 280:17 207:5, 224:22, 275:13, 288:7, 167:24, 348:13 significance [60] shocked [1] - 285:1 226:12, 227:13, 360:4, 364:22, service [1] - 107:23 81:2, 164:17, shoes [3] - 83:11, 227:14, 233:9, 366:5, 369:8, 370:9, 164:19, 165:1, services [1] - 307:8 84:13, 295:14 237:7, 237:19, 370:24, 417:5, set [57] - 12:25, 58:18, 165:16, 165:18, short [4] - 148:11, 238:22, 238:25, 425:8, 425:16, 166:5, 166:9, 167:2, 79:14, 92:7, 114:17, 162:9, 228:23, 240:6, 240:8, 243:5, 441:18, 442:11, 172:4, 175:14, 114:19, 114:22, 427:16 245:19, 248:3, 457:1 175:22, 176:1, 115:19, 116:2, **show** [32] - 15:4, 248:6, 248:9, sensitive [2] - 291:12, 116:14, 116:20, 176:4, 176:6, 36:16, 41:14, 43:20, 248:11, 249:2, 334:13 177:13, 182:6, 117:6, 117:11, 43:22, 43:23, 44:10, 249:19, 249:23, sent [30] - 64:16, 197:6, 198:13, 117:19, 118:17, 61:8, 61:18, 63:18, 250:2, 250:5, 254:8, 91:12, 92:2, 92:3, 118:23, 119:1, 198:20, 199:3, 74:13, 74:24, 97:13, 258:23, 263:20, 99:6, 99:13, 100:17, 200:10, 201:3, 119:10, 121:14, 111:1, 111:10, 265:5, 272:6, 104:3, 104:17, 203:5, 203:19, 178:3, 189:24, 111:24, 122:12, 277:22, 278:25, 207:16, 207:22, 107:18, 109:1, 192:17, 205:13, 122:20, 140:13, 279:2, 287:16, 109:8, 125:25, 208:5, 211:12, 217:13, 223:19, 140:19, 198:10, 298:24, 299:12, 222:4, 223:13, 129:14, 132:9, 228:24, 231:13, 199:13, 201:16, 300:6, 301:2, 134:25, 138:6, 239:20, 265:2, 223:19, 223:25, 226:18, 237:16, 302:19, 303:16, 141:8, 144:20, 287:12, 328:7, 293:4, 293:9, 303:7, 277:9, 299:5, 308:1, 315:24, 323:3, 144:21, 237:19, 329:4, 349:8, 303:16, 332:18, 308:15, 331:6, 333:14, 339:22, 242:7, 252:20, 354:18, 368:1, 337:12, 341:1, 424:21 339:24, 340:2,

<del>17</del>2age 46 ument 28-230 case 1:15 06/04/15 370:21, 403:4, 422:17 174:10, 174:11, 355:17 399:10, 402:13, 454:6, 455:22 403:10, 412:25, simple [3] - 16:19, 174:13, 175:13, soaked [1] - 407:24 423:17, 427:17 sort [15] - 50:2, 82:13, 413:6, 413:8, 176:24, 177:3, social [2] - 43:15, 417:16, 420:20, simpler [2] - 419:5, 181:13, 183:24, 165:3 82:22, 153:13, 421:5, 432:11, 442:16 184:15, 185:17, 154:5, 158:19, Society [2] - 210:25, 187:5, 187:14, 432:24, 434:14, 160:18, 165:22, simply [10] - 16:9, 412:23 435:4, 435:15, 199:19 19:2, 38:6, 46:18, 168:12, 169:23, **soft** [5] - 56:18, 57:1, 435:18, 435:19, slides [8] - 199:15, 216:18, 220:21, 158:16, 203:19, 57:2, 59:4 438:8, 442:15, 353:2, 356:12, 225:8, 380:24, 199:16. 207:25. soften [1] - 12:8 443:1, 443:18, 427:7, 448:16 208:2, 208:7, softer [2] - 56:22, 382:24 443:21 208:10, 417:10, sorts [4] - 329:7, simulate [3] - 352:20, 56:23 417:16 significant [78] - 17:4, 350:9, 355:8, 360:6 358:16, 406:18 softness [1] - 56:20 17:24, 52:22, 54:10, slight [1] - 404:20 sound [2] - 182:4, simulated [2] -**SOKOLY** [1] - 3:12 122:24, 159:7, slowly [2] - 164:6, 352:25, 359:4 solely [2] - 198:1, 406:12 162:18, 162:21, simulation [3] -292:21 sounds [2] - 33:7, 244:20 164:3, 164:15, small [13] - 176:1, 67:10 384:11, 444:6, solid [1] - 442:12 165:13, 166:19, 229:21, 285:25, source [3] - 84:11, 446:20 solve [1] - 345:23 166:22, 167:4, 435:16, 435:20, 285:18, 285:21 simulations [11] solving [2] - 346:6, 167:6, 168:8, 435:24, 436:6, sources [2] - 218:22, 197:16, 199:4, 346:8 175:19, 178:7, 328:23, 358:12, 436:14, 436:15, 297:4 someone [17] - 28:6, 179:20, 181:17, 358:13, 358:21, 437:4, 439:3, 447:13 speaking [3] - 6:9, 28:8, 74:9, 77:19, 182:1, 182:9, smaller [4] - 166:23, 358:23, 366:19, 7:5, 442:24 83:17, 83:23, 84:7, 186:11, 199:12, 166:24, 436:21, 406:17, 443:4, 444:2 speaks [4] - 120:2, 84:12, 92:4, 113:2, 199:14, 199:17, 451:23 simultaneously [3] -129:12, 149:7, 210:8 191:10, 249:10, 199:22, 200:22, smallest [2] - 436:24, 131:5, 134:16 special [1] - 80:3 257:24, 307:4, 201:10, 201:25, single [1] - 372:16 437:2 **specialty** [2] - 151:10, 319:9, 350:21, 202:11, 202:13, smart [1] - 90:20 sit [5] - 309:24, 286:10 396:12 202:17, 203:3, Snyder [47] - 15:22, 310:25, 317:19, specific [14] - 23:17, **sometime** [1] - 58:7 203:23, 205:18, 17:16, 148:25, 335:9, 339:17 35:19, 51:11, 86:12, sometimes [16] - 18:1, 210:4, 222:17, 150:5, 150:7, sitting [6] - 96:8, 97:2, 153:13, 191:6, 53:10, 54:3, 71:20, 223:7, 224:8, 229:20, 296:2, 150:16, 151:8, 273:5, 274:14, 83:18, 88:16, 120:5, 225:13, 327:16, 395:22, 399:19 160:14, 171:10, 295:20, 295:21, 196:6, 231:24, 327:25, 345:24, 188:25, 190:19, situation [10] - 45:9, 337:12, 362:7, 315:14, 377:23, 354:25, 360:5, 194:1, 194:22, 49:2, 49:14, 149:12, 397:5, 397:6 377:24, 407:8, 360:16, 362:3, 194:23, 207:9, 194:12, 229:22, Specifically [1] -441:25, 442:1, 453:7 367:24, 368:16, 222:19, 270:8, 260:10, 276:9, 172:10 somewhat [3] - 93:1, 374:2, 374:3, 374:5, 290:19, 326:20, 435:8, 437:18 specifically [14] -281:24, 435:6 395:6, 402:10, 328:25, 330:20, 26:10, 46:8, 51:10, situations [2] - 36:8, somewhere [7] - 81:6, 411:8, 414:9, 420:7, 352:14, 359:9, 435:16 104:11, 147:8, 91:1, 232:22, 420:17, 425:5, 359:11, 361:12, 172:8, 327:10, **six** [10] - 48:4, 55:13, 279:11, 279:12, 425:6, 429:14, 363:15, 363:20, 125:10, 125:14, 360:12, 370:10, 286:8, 323:5 431:2, 431:10, 364:7, 365:7, 125:21, 131:24, 370:14, 379:18, soon [1] - 390:24 431:25, 432:16, 365:21, 366:5, 229:15, 365:9, 379:21, 380:5, sooner [3] - 408:11, 434:23, 435:1, 366:11, 374:12, 401:13, 419:21 380:17 408:18, 409:9 436:13, 436:15, 375:19, 380:9, six-minute-and-21specifics [4] - 53:2, sorry [38] - 42:21, 439:2, 446:13, 380:19, 414:17, 191:7, 304:6, 304:7 second [1] - 132:3 45:4, 63:24, 71:10, 451:2, 451:25, 416:16, 416:21, specified [2] - 289:2, sizes [2] - 435:17, 94:10, 94:12, 452:12, 452:16, 417:6, 417:15, 289:3 439:3 112:19, 121:7, 453:13, 453:18 421:4, 426:10, specifying [1] skeptic [1] - 441:13 170:9, 193:13, significantly [3] -438:7, 438:16, slices [1] - 153:21 240:15 202:3, 204:3, 172:12, 395:19, 445:11, 447:23 speculate [5] slickers [2] - 407:8, 207:17, 224:22, 401:17 **SNYDER** [2] - 4:9, 407:9 229:1, 242:22, 135:16, 135:21, silly [4] - 453:10, 5:16 137:9, 138:2, 138:23 244:12, 244:17, Slide [2] - 172:2, 453:11, 453:14, Snyder's [5] - 361:5, speculation [1] -172:16 252:2. 265:2. 453:22 367:14, 414:11, 181:2 277:11, 277:18, slide [25] - 158:18, **SIM** [2] - 105:19, 418:15, 432:6 **speculative** [1] - 32:23 159:19, 160:12, 298:8, 298:11, 106:12 so-called [8] - 17:10, speech [1] - 294:14 161:10, 162:12, 318:5, 373:12, similar [4] - 41:15, 177:17, 184:25, 162:25, 163:14, 376:4, 376:13, speed [1] - 54:10 41:16, 42:19, 283:25 203:2, 213:19, 388:19, 392:3, spell [1] - 345:11 164:14, 166:3, similarly [2] - 420:11, 213:21, 316:1, 397:12, 397:13, 169:3, 174:2, spend [7] - 20:8, 21:8,

ument 28-230 08/04/15 <del>65 of 17</del>2age 47 Jase 1:15-cv TO-KMP-3CI 39:3, 52:22, 86:5, start [21] - 67:4, 129:8, 264:14, 271:8, 349:16, 349:17, 347:9, 437:15, 452:20 287:15, 442:9 138:10, 158:17, 275:24, 278:13, 349:20, 354:8, 354:14, 354:18, statisticians (6) spent [4] - 208:3, 159:19, 169:14, 304:22, 306:22, 329:15, 423:11, 170:17, 222:25, 315:17, 334:1, 359:17, 360:2, 283:11, 284:19, 441:20 237:23, 247:3, 337:15, 391:23, 360:11, 360:15, 330:8, 381:22, 432:18, 436:3 361:2, 361:22, spiking [1] - 121:6 292:14, 292:21, 424:16, 435:7 STATEMENTS [1] -362:7, 363:3, spirit [1] - 135:19 293:2, 319:3, statistics [22] - 16:3, 363:10, 366:25, sports [3] - 322:8, 331:18, 349:17, 5:3 73:17, 74:1, 152:13, 367:17, 367:20, 322:19, 322:20 360:23, 370:2, statements [8] - 7:24, 157:1, 157:3, spot [5] - 336:13, 383:19, 410:19, 11:6, 35:15, 119:22, 368:1, 368:5, 194:24, 201:21, 455:9 121:3, 337:2, 341:6, 368:10, 370:20, 211:1, 236:6, 236:8, 338:18, 393:17, 371:7, 395:14, started [32] - 7:15, 341:8 286:17, 287:19, 393:18 412:18, 412:21, 87:16, 87:17, 87:18, states [6] - 105:17, 287:23, 347:7, sprayed [1] - 383:9 412:25, 413:6, 89:6, 106:19, 347:10, 348:2, spraying [1] - 383:8 134:2, 213:9, 413:8, 413:12, 151:20, 155:25, 213:10, 258:16, 412:10, 423:2, square [1] - 113:23 414:17, 415:1, 229:24, 234:11, 380:23 441:5, 441:7 squeeze [3] - 120:15, 280:4, 280:5, 291:7, States [3] - 324:23, 420:20, 421:5, Statistics [2] - 412:15, 120:18, 120:23 292:11, 292:18, 423:7, 424:2, 325:4, 347:17 412:23 squeezed [2] - 59:3, 428:15, 428:19, 293:19, 315:24, stating [3] - 201:18, stay [5] - 88:25, 59:4 429:23, 432:11, 332:12, 389:9, 225:6, 275:6 128:19, 237:2, squished [1] - 351:4 390:24, 391:5, 432:12, 432:24, stationed [1] - 307:18 335:18, 365:25 **STACEY** [1] - 2:22 433:3, 433:16, 391:15, 391:18, Statistical [1] - 412:4 stayed [1] - 133:19 stadium [12] - 82:8, 397:16, 399:2, 434:14, 435:3, staying [1] - 366:15 statistical [136] -83:12, 84:4, 123:10, 399:4, 399:11, 436:25, 438:5, steel [1] - 153:17 15:25, 151:13, 128:5, 129:6, 133:3, 438:8, 439:2, 441:7, 400:15, 405:18, **Steffey** [8] - 347:8, 151:15, 151:16, 133:7, 133:9, 442:14, 443:1, 410:13, 425:18, 152:1, 152:7, 153:3, 411:17, 412:1, 133:11, 146:12, 443:21, 445:17, 455:13 153:15, 156:9, 412:7, 414:10, 146:23 starting [26] - 28:21, 449:8. 450:4. 450:7. 156:22, 157:16, 427:21, 438:1 staff [3] - 154:16, 126:24, 134:5, 450:11, 450:12 157:21, 158:9, **STEFFEY** [2] - 4:15, 238:6. 320:18 163:5, 163:6, 163:9, statistically [53] -163:20, 164:16, 5:23 stagnant [1] - 393:11 17:3, 17:23, 159:7, 174:24, 181:10, 164:19, 165:1, stenographic [1] -Stamp [2] - 104:12, 164:15, 165:13, 181:11, 184:5, 165:7, 165:16, 457:10 367:15 166:19, 166:22, 186:1, 186:15, 165:18, 166:4, step [3] - 160:18, stand [4] - 47:4, 187:8, 187:13, 167:4, 175:19, 166:9, 166:14, 165:16, 276:11 263:4, 308:15, 179:20, 181:16, 200:10, 216:4, 166:15, 166:17, **STEPHEN** [1] - 4:5 427:25 216:22, 292:24, 182:1, 182:9, 194:6, 167:2, 173:19, stepped [3] - 88:13, standard [36] - 21:12, 200:22, 201:24, 354:12, 363:8, 175:14, 175:22, 88:15, 230:10 22:1, 22:7, 31:9, 202:10, 202:12, 374:13, 374:15, 175:25, 176:4, steps [5] - 54:21, 52:19, 65:8, 163:20, 202:17, 203:3, 375:4, 375:7, 176:6, 177:14, 158:6, 190:11, 165:1, 165:3, 203:23, 205:18, 406:11, 432:4 180:24, 181:14, 230:15, 232:21 165:23, 165:24, 210:3, 222:17, starts [2] - 170:2, 181:16, 182:3, Steroid [1] - 9:14 167:3, 176:3, 170:10 223:7, 224:8, 182:5, 187:22, steroids [2] - 9:12, 181:21, 210:3, 225:13, 327:15, **STATE** [1] - 1:24 194:3, 195:1, 195:5, 223:19, 308:21, 9:15 327:25, 354:25, **State** [9] - 47:7, 195:8, 197:6, Steve [2] - 101:13, 324:15, 324:16, 360:5, 361:16, 150:10, 227:22, 197:22, 198:2, 331:25 324:21, 324:24, 362:3, 367:24, 261:5, 345:5, 198:4, 198:13, 325:3, 325:12, sticker [1] - 299:11 368:16, 371:12, 411:20, 412:15, 198:20, 199:3, sticking [1] - 328:14 325:13, 325:16, 439:17, 457:8 395:6, 414:9, 420:6, 200:9, 201:3, 353:19, 354:17, Stickum [1] - 26:4 420:16, 425:5, state [12] - 47:12, 201:17, 203:5, 371:11, 404:21, still [17] - 20:16, 425:6, 430:22, 150:14, 209:4, 203:18, 207:16, 405:6, 405:7, 45:14, 76:11, 96:1, 431:3, 434:23, 209:5, 228:1, 261:9, 207:22, 208:5, 408:24, 408:25, 97:3, 116:16, 435:1, 446:7, 266:9, 266:15, 208:13, 211:12, 420:22, 424:25, 129:16, 264:6, 446:13, 451:2, 345:9, 411:24, 212:16, 213:3, 433:2 302:10, 343:18, 451:25, 452:12, 428:4, 439:21 213:4, 213:13, **Standards** [1] - 353:19 390:18, 401:8, 452:16, 453:18 statement [23] - 40:7, 222:3, 223:13, standing [1] - 309:1 401:11, 401:14, statistically-57:17, 84:10, 223:19, 223:25, stands [4] - 242:17, 402:4, 410:20, accepted [1] -100:11, 182:2, 285:5, 285:9, 242:18, 242:20, 436:15 371:12 193:16, 206:13, 286:21, 286:25, 437:3 **Still** [1] - 78:20 208:6, 212:11, 287:12, 328:7, statistician [7] -Stanford [3] - 156:15, stimulate [1] - 353:4 187:23, 286:13, 222:19, 248:15, 329:3, 349:8, 346:23, 347:15 stimulations [1] -286:16, 330:16,

ument 28-230 .<mark>66 of 17</mark>2age 48 329:5 subatomic [1] suggestion [3] -164:9 314:25, 397:4 259:20, 453:1, 453:4 stock [1] - 153:20 440:24 suspend [1] - 20:22 tamper [1] - 147:22 **stood** [1] - 307:9 subject [19] - 9:5, suggestive [4] suspended [4] tampered [5] - 16:13, stop [6] - 151:15, 31:14, 35:22, 36:3, 446:14, 452:17, 24:17, 25:11, 45:3, 18:19, 254:13, 36:14, 37:12, 65:1, 452:19, 452:21 249:9 319:16, 320:5 176:7, 181:18, 84:19, 200:25, 271:1, 333:4, 350:12 suggests [3] - 38:24, suspenders [1] tampering [18] -213:25, 222:20, 338:21, 370:11 283:8 16:24, 193:1, stopped [1] - 400:1 story [2] - 291:2, 265:12, 272:1, **suitable** [1] - 343:6 suspending [1] -207:24, 208:15, 420:10 278:7, 332:25, Suite [1] - 4:4 45:11 209:2, 209:7, 209:8, 335:25, 336:21, suspends [1] - 250:2 209:12, 209:22, straight [1] - 134:3 sum [1] - 356:15 341:25, 402:10 210:10, 249:20, suspension [4] - 36:3, strategy [1] - 154:6 summarize [2] submit [10] - 13:18, 314:15, 316:17, STRAUSS [1] - 2:19 357:18, 357:20 36:14, 45:7, 45:17 33:9, 36:15, 38:2, 327:9, 329:17, **STRAWN** [1] - 3:8 **Summary** [6] - 263:1, sustained [2] - 271:6, 38:15, 38:18, 40:18, 263:10, 264:8, 271:24 329:20, 349:4 street [1] - 128:9 42:3, 42:6, 344:14 tape [3] - 303:19, 273:6, 300:22, swapped [1] - 407:12 Street [2] - 3:3, 4:4 submitted [3] - 39:17, 303:22 326:23 **swaps** [1] - 91:4 stress [6] - 92:17, task [1] - 30:19 89:13, 105:10 swear [1] - 261:2 **summary** [2] - 273:18, 93:14. 275:20. subsequently [2] tasked [3] - 33:18, 382:24 sweatshirts [1] -275:25, 276:25, 82:19, 220:17 **Sunday** [2] - 135:3, 145:3, 145:8 317:1 407:9 substance [7] -147:1 switch [2] - 190:23, taught [2] - 152:12, strike [6] - 211:5, 134:12, 262:2, 152:16 Super [26] - 47:25, 190:24 211:6, 219:12, 274:11, 275:2, teacher [1] - 188:24 295:7, 296:17, 297:3 71:16, 71:20, 76:3, switched [4] - 161:2, 275:18, 303:8, teaching [2] - 151:7, 76:10, 76:13, 77:3, striking [2] - 181:19, 161:22, 369:3, 369:9 444:15 152:20 77:8, 77:14, 77:18, 192:8 switching [1] - 413:24 **Substances** [1] - 26:3 77:23, 79:20, 81:4, **Team** [1] - 307:7 strong [3] - 172:7, sworn [8] - 47:6, substantial [10] -81:10, 84:21, team [63] - 10:7, 435:21 150:9, 227:21, 32:21, 32:25, 34:9, 111:13, 128:20, 261:4, 345:4, 380:1, 10:10, 11:9, 16:4, struck [1] - 446:20 34:22, 38:17, 40:10, 130:15, 132:25, 17:16, 21:2, 22:17, structure [3] - 221:18, 411:19, 439:16 40:11, 41:1, 41:23, 141:21, 141:23, 23:20, 47:18, 56:14, **symbols** [1] - 430:13 428:21, 429:2 242:25 142:1, 142:8, 75:14, 86:3, 100:16, synch [1] - 446:16 structured [6] substantially [1] -142:19, 142:21, 100:22, 101:12, Syracuse [1] - 322:15 201:23, 428:24, 266:2 142:25 101:15, 101:17, system [1] - 28:10 429:5, 429:6, substantive [3] -Superimposed [1] -107:8, 107:12, 429:10, 430:6 108:25, 109:5, 267:10, 269:17, 403:20 student [1] - 211:1 Т 269:21 supervised [3] -110:1, 110:2, students [3] - 152:23, substantively [1] -138:11, 155:11, 152:22, 153:1, t-test [2] - 419:8, 154:15, 282:22 221:20 285:20 155:16, 158:13, 419:16 studied [11] - 151:21, subtraction [1] -173:22, 174:5, supervising [1] -**Tab** [1] - 198:25 152:9, 167:8, 201:4, 216:19 195:4, 195:7, 433:8 208:11, 208:22, Table [10] - 159:22, 236:12, 245:24, sucked [1] - 63:8 Supplemental [1] -160:13, 161:11, 210:17, 218:14, 255:18, 256:16, sucks [1] - 92:12 101:23 337:17, 426:12, 166:7, 173:11, 262:13, 264:17, sudden [1] - 37:20 **support** [5] - 181:9, 426:15 198:3, 198:15, 267:5, 268:24, suddenly [1] - 451:24 284:11, 327:7, 201:15, 208:21, studies [8] - 152:5, 284:25, 286:8, sufficient [10] - 74:6, 346:6, 349:1 225:3 165:14, 329:4, 286:18, 291:21, supported [3] - 162:3, 205:24, 206:16, table [8] - 159:21, 329:6, 431:24, 307:6, 324:10, 206:22, 207:2, 349:22, 427:8 162:24, 163:1, 433:17, 440:23, 324:13, 331:14, 207:5, 210:23, **suppose** [1] - 39:15 166:7, 166:12, 440:24 332:22, 334:25, 286:4, 289:23, 370:4 **supposed** [9] - 62:23, 169:22, 212:8, study [13] - 16:5, 341:4, 346:25, sufficiently [2] -70:7, 94:11, 277:20, 369:14 151:13, 152:13, 347:4. 348:8. 378:8. 289:24, 316:18 278:3, 283:16, tack [1] - 53:7 200:11, 201:2, 406:6, 413:4, 283:17, 323:9, suggest [6] - 29:14, 210:16, 373:3, tackiness [1] - 55:19 416:21, 417:6, 32:18, 41:13, 44:13, 323:11 tackled [1] - 426:4 380:15, 413:15, 423:25, 424:3, 68:2, 68:5 **surely** [1] - 46:2 Tagliabue [2] - 45:5, 434:15, 434:21, 424:4, 438:16 suggested [8] - 323:5, **surface** [1] - 35:3 441:6, 451:11 46:7 teams [22] - 152:23, studying [3] - 163:22, 369:25, 370:19, surgery [1] - 313:2 tailored [1] - 335:25 206:1, 237:2, 387:16, 395:7, 442:10, 442:25 **surprise** [1] - 219:8 takeaway [2] - 179:15, 255:14, 256:5, 395:9, 404:12, surprised [1] - 214:1 stuff [6] - 124:19, 194:2 256:8, 256:10, 452:24 surrounding [1] -128:18, 306:23, talent [1] - 284:23 256:11, 256:14, 313:19, 338:25, suggesting [2] -261:17 talks [5] - 22:20, 256:18, 256:21, 207:9, 207:12 353:3 suspected [2] - 164:7, 140:9, 238:20,

ument 28-230 <del>7 of 17</del>2age 49 08/04/15 Case 1:15-cv TO-KMR-JC 258:7, 259:21, 183:8, 207:17, 238:1, 255:5, 288:2, 231:9, 231:17, 136:3, 136:17, 260:3, 260:4, 425:7, 425:20, 288:19, 288:25, 232:19, 233:7, 137:22, 138:3, 296:19, 327:15, 429:13, 429:20, 289:4. 289:10. 233:10, 234:3, 138:5, 138:9, 327:20, 355:14, 429:22, 452:19, 291:23, 294:10, 234:6, 234:10, 138:12, 138:15, 376:22, 376:24, 452:21, 452:22 316:2, 319:22, 234:11, 234:21, 139:12, 139:15, 408:13 320:1, 320:11, 139:20, 140:11, terms [56] - 13:25, 234:25, 235:3, tech [1] - 197:20 237:6, 239:1, 239:7, 140:15, 140:19, 25:2, 26:22, 27:12, 351:24, 352:4, 249:5, 282:4, 355:4, 355:5, 356:1, 141:2, 141:5, 141:7, 38:13, 39:18, 73:11, technical [8] - 183:8, 374:25, 376:15, 282:14, 282:19, 144:17, 144:21, 345:23, 348:21, 87:22, 92:1, 151:17, 145:12, 275:16, 417:12, 418:21, 152:8, 156:10, 377:13, 377:15, 283:9, 283:18, 430:11, 430:15, 157:6, 157:11, 378:3, 381:7, 285:5, 285:9, 277:8, 277:10, 381:10, 381:18, 291:15, 298:16, 277:18, 310:13, 157:13, 158:8, 446:11 387:2, 387:5, 309:19, 310:1, 310:16, 310:21, techniques [1] - 449:1 164:18, 172:5, 310:6, 310:9, 311:4, 311:14, 389:10, 392:13, 172:25, 177:14, **Ted** [7] - 11:7, 14:25, 185:4, 186:23, 396:1, 413:25, 339:20, 339:21, 313:7, 316:23, 15:22, 20:4, 100:12, 414:1, 422:4, 431:15 339:25, 340:3, 118:2, 261:1 251:15, 260:3, 317:2, 317:6, telephone [14] - 112:6, 270:21, 272:22, tester [1] - 17:2 349:14, 351:4, 332:17, 333:22, 276:12, 283:2, testified [19] - 47:7, 352:1, 352:6, 352:7, 335:24, 337:19, 124:7, 125:4, 337:23, 338:1, 284:14, 296:7, 150:10, 227:22, 354:2, 354:7, 125:16, 129:24, 355:16, 362:15, 338:3, 338:5 296:18, 301:10, 255:11, 255:20, 130:10, 130:24, 304:14, 308:21, 261:5, 266:10, 375:14, 377:20, texted [1] - 139:22 131:4, 131:10, 310:24, 315:2, 378:19, 392:25, texts [34] - 14:10, 134:13, 143:14, 295:21, 326:20, 315:16, 322:19, 345:6, 411:20, 396:17, 399:18, 14:15, 14:22, 14:24, 143:21, 145:14, 323:8, 324:24, 415:22, 429:8, 406:7, 407:16 34:23, 38:25, 39:10, 149:23 Tests [1] - 258:19 325:6, 332:18, 431:16, 433:1, 39:14, 43:8, 43:25, **Telephone** [1] - 130:3 333:2, 337:22, 433:25, 434:6, tests [16] - 18:16, 44:4, 44:5, 44:6, telephoned [1] - 262:5 197:9, 197:12, 337:23, 338:16, 437:1, 439:17 44:9, 44:10, 44:11, telephones [3] -339:19, 339:21, testifies [1] - 10:12 197:15, 198:7, 61:21, 78:4, 79:14, 43:12, 102:2, 149:22 339:24, 340:9, testify [15] - 11:24, 258:17, 282:20, 84:23, 85:14, 85:15, television [2] -341:3, 346:10, 283:3, 290:9, 302:2, 85:20, 86:9, 89:25, 13:20, 13:21, 15:23, 406:18, 406:19 378:22, 428:1, 20:1, 20:2, 37:17, 302:23, 303:1, 91:11, 92:2, 95:2, temperature [38] -428:21 352:5, 376:11, 315:1, 331:15, 44:9, 286:19, 329:2, 17:12, 18:21, 34:2, tertiary [1] - 329:4 331:11, 343:12, 427:12 335:16, 337:1, 120:11, 169:15, test [40] - 17:17, text [104] - 37:20, 339:12, 341:11 400:17, 453:15, 184:5, 184:7, 192:2, 178:4, 178:10, 453:20 39:11, 39:19, 40:8, **THE** [106] - 1:3, 1:24, 220:18, 221:5, 185:4, 198:9, 207:4, testifying [1] - 378:3 42:1, 43:20, 43:22, 49:17, 53:1, 54:14, 231:16, 231:19, 215:10, 229:7, 43:24, 44:7, 76:4, 54:17, 54:22, 56:2, testimony [34] - 6:22, 234:24, 235:2, 231:25, 232:5, 78:7, 78:14, 78:18, 56:11, 59:15, 59:18, 19:17, 32:15, 44:2, 237:13, 288:9, 232:15, 233:8, 92:7, 95:20, 100:11, 60:17, 60:20, 60:23, 48:15. 150:5. 288:24, 290:8, 233:24, 282:7, 100:17, 100:23, 61:1, 61:14, 61:17, 196:25, 200:1, 353:25, 364:25, 301:24, 319:14, 255:21, 265:24, 101:3, 101:7, 66:1, 66:3, 67:2, 365:2, 366:6, 372:2, 328:18, 342:5, 101:11, 101:16, 68:17, 69:15, 69:18, 266:15, 271:10, 393:5, 393:7, 393:8, 351:2, 351:11, 103:7, 104:3, 279:20, 290:17, 69:23, 70:6, 70:21, 393:12, 393:15, 351:19, 377:12, 104:15, 104:17, 70:25, 71:3, 71:10, 293:5, 302:5, 304:4, 394:2, 394:4, 394:5, 377:13, 378:25, 304:9, 307:17, 107:17, 109:1, 71:13, 72:10, 74:23, 394:6, 394:7, 380:14, 383:24, 109:5, 109:14, 80:13, 80:17, 88:11, 307:24, 308:14, 394:11, 394:12, 110:2, 110:7, 110:8, 385:19, 385:20, 350:22, 359:8, 88:22, 88:25, 89:4, 394:18 385:23, 386:2, 377:19, 378:5, 110:18, 110:22, 89:16, 99:23, temperatures [4] -386:19, 387:10, 111:2, 111:11, 105:15, 109:23, 379:20, 379:23, 189:18, 352:12, 387:12, 387:21, 111:24, 112:1, 117:5, 117:8, 379:25, 380:1, 353:1 387:22, 387:23, 112:9, 112:13, 117:10, 117:15, 414:11, 417:13, temptation [1] -419:8, 419:16, 125:12, 125:25, 117:18, 117:24, 427:20, 427:24, 455:25 126:19, 126:23, 419:22, 449:11 445:10 118:3, 122:21, ten [12] - 77:16, 99:25, tested [53] - 16:22, 127:3, 127:5, 124:17, 125:23, testing [65] - 16:5, 150:23, 236:20, 17:8, 17:9, 17:13, 128:21, 129:15, 127:25, 128:4, 16:10, 18:12, 18:13, 386:9, 399:2, 399:4, 18:15, 18:24, 93:11, 129:17, 131:18, 133:12, 133:18, 82:4, 162:3, 165:14, 420:16, 420:17, 93:19, 97:10, 132:8, 132:9, 136:10, 137:13, 178:13, 188:7, 432:12, 432:15, 203:10, 220:16, 132:15, 133:22, 137:15, 137:18, 215:15, 228:18, 433:11 134:24, 135:4, 146:3, 146:6, 146:9, 220:17, 233:4, 230:12, 230:17, tendency [1] - 184:20 233:21, 235:6, 230:22, 231:2, 135:6, 135:12, 146:13, 146:15, term [11] - 183:7, 235:12, 235:22, 135:15, 135:18, 146:17, 146:21,

ument 28-230 .<mark>68 of 17</mark>2age 50 case 1:15 TO-KIMP-1C 06/04/15 146:24, 147:4, 242:21, 242:22, threw [2] - 277:17, 381:9, 381:16, 4:3, 5:15 147:9, 147:14, 333:7, 350:5, 338:11 399:23, 414:19, Tom's [4] - 13:24, 147:18, 148:1, 365:19, 381:11, throughout [12] -415:5, 415:13, 92:12, 119:13, 332:3 155:20, 155:25, 430:4 151:11, 188:6, 415:14, 416:22, ton [3] - 329:15, 342:5 156:6, 168:10, THOMAS [2] - 1:5, 4:9 204:4, 287:21, 417:7, 418:8, tongue [1] - 164:18 168:17, 168:25, 418:15, 418:17, Thomas [2] - 47:13, 366:1, 366:7, 367:6, took [46] - 53:22, 170:11, 170:16, 102:6 367:8. 372:3. 420:9, 422:2, 422:8, 69:24, 70:2, 71:25, 170:19, 170:24, 427:22, 428:6, thorough [2] - 29:19, 383:14, 397:18, 114:18, 156:24, 177:9, 178:3, 180:4, 428:9, 429:8, 429:9, 31:1 407:5 173:25, 211:20, 429:14, 430:8, 180:12, 180:15, thousands [1] throw [1] - 55:20 212:15, 214:10, 180:18, 180:22, 430:13, 430:16, 320:24 throwing [2] - 54:7, 214:15, 214:18, 189:22, 225:21, 430:21, 431:1, thousandth [1] -69:7 215:1, 215:13, 230:5, 252:4, 431:9, 431:14, Thursday [1] - 133:15 246:11, 246:14, 353:20 265:22, 271:25, 431:25, 438:7, Three [1] - 166:11 time-dependent [3] -248:4, 251:13, 298:9, 318:5, 438:13, 438:15, three [59] - 22:2, 169:16, 352:8, 357:4 260:1, 276:5, 397:12, 398:5, 439:5, 439:8, 292:23, 307:13, 49:18, 54:3, 59:16, timed [1] - 360:9 398:8, 403:25, 445:19, 445:22, 314:22, 320:17, 67:14, 70:19, 75:12, timely [1] - 39:24 449:8, 449:12, 409:13, 409:19, 330:17, 349:18, 88:15, 111:2, timing [130] - 34:1, 449:17, 450:7, 439:12, 449:14 351:5, 351:12, 111:11, 111:24, 126:23, 131:16, 450:20 theirs [1] - 423:4 117:12, 129:23, 132:14, 134:9, 351:20, 352:10, tiny [6] - 404:21, themselves [7] - 7:6, 130:2, 132:19, 352:11, 372:17, 159:1, 169:7, 404:23, 404:25, 217:2, 338:21, 380:24, 381:25, 140:19, 152:5, 169:21, 172:6, 355:4, 385:5, 429:4, 408:24, 447:10, 382:8, 396:21, 158:18, 158:20, 179:18, 179:19, 447:14 449:23 397:15, 397:22, 168:12, 168:14, 189:17, 197:24, **THEODORE** [2] - 4:10, tipped [1] - 276:20 406:2, 406:6, 168:24, 174:3, 198:10, 198:15, tips [1] - 276:19 411:11, 412:9, 5:18 175:5, 177:1, 198:17, 198:22, 442:5, 442:16, Theodore [2] - 261:11, 187:18, 191:14, title [3] - 98:13, 199:8, 201:8, 263:12 191:23, 192:4, 345:15, 440:2 454:23 201:18, 201:19, theoretical [3] - 221:3, today [36] - 8:2, 8:10, tool [1] - 371:12 199:2, 240:8, 202:1, 202:11, 10:22, 15:2, 25:1, 286:11, 288:8 240:13, 292:11, tools [1] - 371:7 202:16, 202:18, theory [6] - 164:2, 28:23, 30:2, 30:5, top [15] - 34:23, 99:1, 294:22, 294:25, 203:9, 203:22, 30:9, 31:4, 33:8, 167:14, 250:9, 297:4, 303:23, 204:1, 204:14, 99:3, 99:5, 127:2, 319:23, 320:11, 424:2, 431:21, 35:6, 38:5, 39:15, 132:18, 152:18, 204:18, 204:21, 441:19 324:25, 330:14, 42:6, 96:8, 149:13, 162:13, 169:9, 205:2, 205:13, 157:19, 196:25, therefore [10] - 23:3, 330:21, 359:12, 171:20, 172:19, 205:24, 206:3, 272:17, 272:21, 46:10, 182:2, 366:8, 376:7, 174:14, 258:23, 206:9, 206:22, 272:23, 272:24, 182:23, 200:24, 378:20, 379:2, 299:8, 353:13 207:1, 207:5, 279:15, 279:20, 208:6, 266:12, 380:6, 381:1, 381:3, 207:11, 210:13, topic [2] - 144:3, 286:19, 290:17, 267:22, 354:25, 381:12, 400:17, 447:18 210:14, 210:17, 356:22 321:8, 344:7, topics [3] - 100:19, 400:25, 401:22, 210:18, 210:21, 414:13, 416:9, 355:19, 364:7, 112:25, 113:6 Therefore [2] - 205:22, 210:22, 211:3, 369:18, 417:13, 417:17, 421:21, 222:20 211:4, 211:14, torrential [1] - 55:1 455:20, 456:17 445:13 thermo [1] - 393:13 211:20, 212:9, total [3] - 125:5, together [9] - 8:17, thermodynamics [1] three-and-a-half [3] -212:25, 213:1, 125:6. 131:11 61:4, 156:5, 263:14, 168:14, 168:24, 213:2, 213:12, 169:8 totalities [1] - 392:22 264:10, 276:18, thesis [3] - 151:21, 175:5 213:18, 223:9, totality [5] - 41:24, 276:19, 317:12, three-and-a-half-223:23, 233:6, 284:6, 284:10 316:19, 316:20, 389:19 minute [1] - 177:1 290:18, 328:16, they've [5] - 22:19, 317:9, 393:3 Tom [28] - 6:12, 6:13, 328:19, 328:24, 33:25, 158:12, three-page [1] totally [7] - 264:11, 7:19, 10:23, 10:24, 213:11, 315:5 330:14 342:19, 357:9, 286:24, 296:24, 357:10, 357:13, 11:9, 11:11, 13:23, three-years' [1] thick [3] - 98:9, 303:24, 317:5, 14:4, 14:6, 14:16, 269:10, 337:25 379:2 357:25, 359:19, 341:5, 359:24 42:10, 47:3, 52:23, 360:1, 360:8, 360:9, thinking [8] - 81:4, threshold [15] touch [3] - 12:1, 360:16, 360:18, 60:14, 61:6, 63:2, 128:20, 237:12, 159:17, 165:8, 88:16, 246:4 94:10, 111:20, 360:23, 361:1, 245:17, 366:6, 165:9, 165:20, touchdown [2] -128:1, 148:6, 152:4, 420:19, 423:16, 168:13, 183:13, 373:21, 380:8, 73:18, 166:1 273:13, 275:6, 380:11, 380:16, 183:15, 183:23, 441:20 touched [1] - 337:21 275:17, 275:22, 380:18, 380:19, 184:12, 185:19, third [12] - 130:2, tough [1] - 147:10 314:2, 332:1 380:25, 381:2, 134:3, 178:9, 187:18, 220:8, toward [4] - 105:17, **TOM** [4] - 3:4, 3:21, 381:4, 381:5, 381:6, 178:11, 205:21, 433:3, 433:5, 433:13 111:9, 111:23,

ument 28-230 <del>.**69 of 17</del>2</del>age 51</del>** 08/04/15 TO-KIMP-2CI age 115:21 trying [42] - 26:8, 130:23, 133:13, 79:20, 142:12 treatment [4] - 26:25, 56:20, 85:18, 88:20, towards [2] - 366:21, 133:19, 134:13, 27:4, 249:12, 396:23 **Tygon** [1] - 353:16 **type** [9] - 9:6, 15:18, 367:7 trend [1] - 415:17 92:17, 94:21, 95:6, 134:15, 134:23, track [3] - 128:22, Trent [1] - 64:11 134:18, 134:21, 135:15, 138:5, 45:12, 151:17, 190:5, 226:15 144:11, 144:12, 142:12, 143:11, 151:18, 151:19, trial [5] - 31:10, 31:11, 149:16, 149:22, 144:25, 147:11, tracked [1] - 190:3 434:7, 434:8, 434:9 262:9, 267:25, 438:6 151:25, 152:21, 173:23, 176:9, types [5] - 231:25, traction [1] - 53:12 trials [1] - 325:4 159:8, 160:4, 161:2, traditional [1] - 281:24 178:4, 205:12, triangle [3] - 403:10, 232:6, 232:8, 161:19, 163:11, traffic [2] - 52:8, 404:21, 408:24 205:13. 206:14. 305:16, 346:7 208:4, 213:20, 176:18, 176:20, typically [7] - 49:13, 251:20 tried [20] - 12:24, 229:5, 250:3, 178:13, 180:8, 55:14, 133:8, 234:4, trained [3] - 192:1, 107:20, 120:22, 184:20, 186:4, 267:11, 268:11, 234:6, 437:16 269:9, 269:10 174:5, 178:10, 186:5, 187:25, 277:12, 278:12, training [3] - 55:12, 199:7, 323:21, 189:10, 191:7, 278:16, 292:16, 75:16, 122:15 329:13, 353:3, U 292:17, 292:23, 220:7, 223:5, transcribed [1] -358:16, 384:14, 225:25, 226:9, 328:9, 329:16, **U.S** [1] - 152:3 385:6, 393:10, 161:18 338:10, 346:16, 226:14, 227:10, Ugh...Tom [1] - 62:21 transcript [4] - 340:24, 393:14, 394:21, 353:4, 355:6, 227:15, 232:4, ultimate [2] - 32:7, 410:23, 410:25, 344:6, 344:10, 374:10, 428:8, 232:6, 232:8, 301:10 432:6, 437:13 344:17 233:24, 240:16, 436:19, 441:21, triple [1] - 193:6 ultimately [13] - 12:22, transcription [1] -455:5 240:24, 251:24, 34:19, 51:25, 64:15, trouble [2] - 445:7, 457:9 252:2, 252:4, 252:5, tubing [1] - 353:16 65:11, 116:1, 446:2 transient [53] -Tuesday [3] - 1:10, 258:17, 274:7, 120:12, 148:2, **TROY** [2] - 4:10, 5:17 172:20, 197:12, 276:20, 281:18, 6:2, 133:14 283:1, 301:6, 198:6, 198:9, **Troy** [1] - 228:3 293:15, 293:25, TULUMELLO [1] -302:15, 316:17, true [22] - 183:19, 198:10, 199:3, 294:19, 300:25, 3:22 423:10 215:24, 218:23, 204:16, 204:17, 306:8, 309:13, turn [27] - 8:8, 52:5, unable [1] - 371:3 204:20, 205:1, 220:19, 223:2, 320:1, 327:15, 57:4, 66:21, 84:18, unaccompanied [1] -205:22, 205:23, 234:14, 237:1, 85:9, 85:10, 86:9, 327:20, 332:16, 307:21 206:8, 206:16, 284:22, 296:15, 333:3, 349:5, 349:8, 90:10, 98:16, 109:9, unanimous [1] -206:21, 215:12, 301:4, 301:5, 342:7, 352:5, 362:2, 363:8, 124:22, 125:24, 324:11 386:19, 386:20, 220:24, 224:15, 369:7, 369:13, 126:15, 127:1, unapproved [2] -225:4, 225:10, 386:21, 388:17, 129:4, 129:21, 369:15, 369:24, 328:17, 328:18, 388:22, 432:22, 24:10, 250:4 374:25, 377:20, 131:8, 132:17, unaware [1] - 113:21 436:2, 436:4, 436:6, 352:6, 352:7, 378:20, 388:11, 159:18, 169:2, 352:16, 353:6, 436:20 uncertain [6] - 289:6, 388:20, 389:3, 205:19, 253:12, 289:20, 291:18, 353:11, 353:23, truly [1] - 30:18 389:14, 389:17, 309:13, 311:13, 357:1, 357:2, 358:6, 315:7, 343:11, trust [1] - 14:3 389:23, 390:4, 333:5, 422:19 392:12 358:19, 358:22, Trustees [1] - 322:16 390:13, 390:16, turned [6] - 83:16. 366:19, 370:12, uncertainties [5] truth [1] - 30:24 390:17, 390:18, 85:2, 94:1, 230:11, 372:4, 382:24, 187:23, 219:11, truthful [3] - 268:21, 391:20, 401:16, 334:18, 336:5 383:15, 403:3, 445:2, 445:9, 451:19 278:13, 341:8 402:4, 402:5, turning [2] - 155:2, uncertainty [28] -403:5, 403:17, truthfully [2] - 11:16, 404:21, 405:7, 336:22 403:18, 404:6, 160:11, 176:18, 278:11 405:23, 406:11, turns [5] - 12:25, 17:5, 176:19, 176:20, 404:19, 405:11, try [39] - 6:9, 28:17, 406:12, 408:11, 55:5, 186:8, 443:13 405:20, 409:20, 176:21, 183:20, 49:10, 53:7, 53:16, 408:18, 408:25, 417:19, 438:11, **TV** [1] - 406:21 187:20, 187:21, 54:8, 63:25, 81:6, 409:9, 415:24, twelve [1] - 391:11 443:3, 443:8, 444:1, 214:12, 290:3, 94:5, 148:20, 189:6, 415:25, 416:9, twice [5] - 125:19, 445:4 290:5, 290:7, 290:8, 248:20, 263:6, 418:22, 419:1, 125:21, 130:21, transients [1] - 383:1 290:9, 290:10, 295:16, 295:21, 419:8, 420:6, 131:10. 411:2 291:14, 300:25, transition [3] - 171:24, 302:20, 328:19, 424:14, 437:12, Two [3] - 102:5, 174:14, 175:6 301:16, 301:18, 352:19, 352:20, 437:15, 438:10, 111:20, 111:21 302:10, 302:12, translated [1] - 375:1 371:1, 384:15, 456:23 two [129] - 14:22, 302:17, 303:4, translation [2] - 375:5, 388:1, 391:8, two-hours' [1] - 226:9 27:19, 29:2, 33:11, 419:25, 437:17, 375:9 396:18, 397:5, two-month [1] - 68:19 54:3, 59:15, 61:3, 451:20, 451:21, transparency [1] -406:18, 407:4, two-sample [1] -67:20, 67:21, 68:19, 451:22 344:12 422:22, 427:16, 419:8 76:3, 76:9, 77:20, under [64] - 9:7, 9:14, transparent [2] -431:7, 431:8, 445:6, two-sigma [1] -11:11, 22:22, 25:4, 79:20, 102:23, 302:20, 418:21 448:14, 448:15, 408:25 125:5, 126:16, 26:10, 26:14, 26:23, treated [2] - 249:19, 448:17, 450:5, two-week [3] - 77:20, 128:14, 130:12, 27:10, 27:11, 27:12, 435:16 450:10, 450:21

ument 28-230 <del>0 of 17</del>2age 52 08/04/15 28:3, 28:5, 28:9, 222:21, 223:8 50:17, 54:10, 54:23, 177:23, 177:24, 182:25, 183:6, 28:18, 29:1, 29:8, 57:14, 64:3, 69:7, 179:9, 179:11, 224:7, 224:10, Uniform [2] - 26:3, 30:21, 31:1, 31:7, 26:6 69:11, 70:6, 70:7, 181:10, 181:11, 419:17, 451:23 31:12, 31:21, 32:3, uniform [2] - 228:14, 80:13, 81:15, 91:1, 187:8, 187:13, variances [2] - 159:6, 32:6, 36:11, 40:23, 393:17 92:16, 93:5, 93:6, 216:4, 216:22, 420:15 222:5, 222:7, 418:2, 45:17, 126:16, 93:10, 94:23, 95:8, uniforms [1] - 25:14 variants [1] - 181:3 129:11, 149:13, 103:20, 104:1, 418:20, 419:20, variation [12] - 159:3, unimportant [1] -152:19, 174:19, 115:5, 116:16, 420:4, 420:15, 211:3 205:24, 205:25, 175:23, 177:23, 126:18, 129:1, 424:23, 425:23 Union [6] - 245:17, 206:22, 212:19, 179:22, 186:4, 140:13, 142:23, value's [2] - 166:13, 213:6, 213:24, 305:6, 335:2, 335:4, 205:10, 214:16, 153:10, 154:25, 420:12 222:9, 361:24, 335:9, 344:6 221:20, 221:21, 156:2, 156:18, values [16] - 149:14, 362:19, 368:6, 421:7 unit [1] - 243:18 238:3, 238:10, 164:10, 169:15, 163:5, 163:6, 163:9, variations [2] -United [3] - 324:22, 171:17, 171:24, 250:9, 255:20, 166:19, 174:24, 325:4, 347:17 169:15, 362:1 266:13, 271:19, 172:14, 173:2, 186:1, 186:15, variety [3] - 17:13, University [15] -271:21, 295:1, 178:3, 190:25, 186:16, 381:24, 345:22, 346:15 47:15, 150:23, 311:12, 311:21, 205:13, 221:1, 403:20, 417:15, 151:1, 151:3, 151:4, various [13] - 27:6, 311:25, 318:24, 223:11, 223:19, 418:23, 418:24, 41:19, 52:7, 76:4, 155:12, 280:9, 323:12, 325:13, 227:14, 231:14, 419:13, 432:14 322:15, 346:24, 82:11, 206:5, 357:17, 365:10, 238:8, 247:14, variability [45] -347:15, 347:20, 298:15, 306:12, 379:20, 379:25, 259:17, 284:23, 180:24, 181:15, 412:11, 412:15, 351:21, 352:10, 385:15, 400:11, 291:7, 350:3, 182:10, 222:15, 352:12, 358:1 440:1, 440:9 404:25, 417:17, 352:22, 353:11, 222:16, 222:23, vary [3] - 17:18, 17:19, unknown [3] - 17:19, 420:5, 429:3 356:16, 360:2, 223:14, 224:1, 428:2 17:20, 315:6 undergraduate [1] -360:4, 361:22, 224:13, 225:7, unknowns [8] - 16:10, veering [1] - 355:20 412:9 364:11, 364:23, 361:3, 361:14, verbally [1] - 265:18 17:6, 17:15, 17:21, 366:25, 370:5, underinflated [2] -361:15, 361:23, 287:25, 315:10, verdict [1] - 324:9 218:7, 378:13 372:19. 384:21. 362:6, 362:18, 315:17, 315:20 verifying [1] - 358:22 underlying [2] - 31:16, 384:22, 390:9, 362:23, 363:1, unless [8] - 7:11, version [5] - 88:11, 344:9 395:7, 397:24, 383:25, 387:9, 21:19, 166:1, 88:19, 197:20, 400:17, 400:23, undermine [1] - 331:2 417:1, 419:15, 266:14, 275:1, 376:21, 430:9 400:24, 401:14, 419:24, 419:25, underneath [4] -275:8, 298:6, 393:21 versus [13] - 19:21, 402:3, 405:25, 420:2, 429:23, 126:3, 131:23, unlike [1] - 377:10 73:10, 217:8, 421:17, 443:18, 432:10, 434:24, 134:2, 407:8 unlikely [6] - 167:9, 240:23, 241:1, 447:17, 453:16, underscores [1] -437:18, 437:19, 208:24, 208:25, 319:15, 323:25, 455:19, 456:24 437:22, 438:22, 193:20 210:15, 243:3, 364:4, 365:18, upcoming [1] - 331:25 438:23, 446:5, understood [13] -368:17, 382:21, 377:11 updated [1] - 99:6 446:7, 446:22, 205:1, 220:20, unprecedented [2] -422:9, 447:7 upfront [1] - 75:18 449:16, 449:19, 220:21, 281:4, 130:17, 132:24 VI [1] - 124:24 upside [1] - 173:16 451:3, 451:25, 305:12, 305:13, unquestioned [1] -Vice [10] - 2:6, 2:7, 358:1, 359:6, uptick [1] - 302:24 454:11, 454:22, 29:21 24:12, 24:22, 25:1, urge [2] - 13:16, 149:8 455:6, 455:13 377:23, 401:23, unrealistic [6] - 94:22, 25:6, 228:6, 228:9, variable [28] - 173:14, usage [6] - 114:1, 413:8, 424:17, 439:5 95:7, 95:12, 95:23, 249:24, 263:15 201:13, 206:25, undertaken [2] -114:4, 349:10, vice [4] - 246:7, 95:25, 145:1 213:20, 213:21, 323:19, 427:12 350:7, 356:3, 388:6 unreliable [2] - 286:5, 345:16, 345:17, 215:4, 362:5, 365:1, useful [1] - 456:19 unequivocal [1] -347:14 317:22 380:11, 380:16, 34:15 uses [2] - 262:19, victory [1] - 424:24 unreported [3] -380:19, 380:20, unexamined [2] -433:16 videotape [1] - 352:19 211:21, 212:5, 212:7 380:25, 419:19, 222:21, 223:9 utilized [2] - 230:22, unscientifically [1] view [21] - 19:9, 19:15, 429:8, 429:9, unexplained [4] -232:22 95:19, 154:5, 188:2, 193:5 429:25, 430:8, 175:21, 177:17, 191:19, 201:19, unusual [5] - 13:8, 430:16, 430:21, V 179:12, 179:21 72:15, 87:21, 88:3, 210:2, 249:8, 431:2, 431:3, unfair [1] - 135:20 142:23 273:12, 284:2, 431:10, 431:16, valid [1] - 438:8 unfortunately [2] -322:23, 378:13, unweighted [1] -438:7, 439:1, 450:7 validate [2] - 358:19, 28:1, 350:23 416:12, 443:20, 423:19 variables [4] - 173:12, unfounded [6] -421:14 443:25, 444:4, up [93] - 6:9, 16:25, 198:16, 202:14, valuable [1] - 42:15 359:24, 361:19, 444:22, 444:25, 19:4, 19:5, 19:6, 210:19 value [24] - 166:6, 361:20, 364:1, 28:25, 31:5, 36:19, 454:25, 455:6 variance [9] - 181:8, 166:23, 168:13, 364:2, 368:22 viewed [4] - 24:15, 41:9, 43:24, 44:5, 182:14, 182:21, 177:12, 177:14, unidentified [2] -271:11, 276:12, 44:6, 45:2, 50:3,

ument 28-230 <del>1 of 17</del>2age 53 06/04/15 304:20 Walt [18] - 34:14, ways [3] - 82:11, 83:15, 84:10, 86:2, 362:25, 367:4, 381:11, 382:21, viewing [1] - 348:16 183:18, 291:23, 89:17, 91:11, 91:20, 419:1, 438:10 views [9] - 190:15, 293:16, 293:22, weather [7] - 16:18, 91:24, 91:25, 94:9, 383:6, 383:25, 287:19, 361:6, 293:23, 294:1, 55:6, 55:9, 68:21, 94:13, 107:8, 386:15, 387:8, 363:15, 366:11, 294:6, 295:3, 69:17, 70:5 107:11, 108:25, 387:9, 406:15, 110:5, 111:14, 407:18 296:21, 297:21, 371:16, 373:4, Wednesday [1] -117:20, 136:9, wetted [2] - 383:16, 447:23, 448:7 301:13, 302:21, 133:14 303:7, 359:2, 369:3, 136:19, 136:20, 383:18 vigorously [1] week [8] - 49:14, 369:9. 455:10 140:12, 140:16, 396:12 77:20, 79:20, wetter [7] - 178:16, 149:21, 176:16, wants [3] - 9:18, Vikings [9] - 23:10, 123:11, 133:4, 236:23, 384:25, 266:14, 268:10 177:10, 243:7, 385:15, 387:13, 23:12, 246:14, 142:12, 330:20, 243:13, 243:20, 253:10, 253:17, Warm [2] - 257:1, 441:25 387:18, 407:19 243:24, 244:3, 257:2 whack [1] - 295:9 253:21, 254:2, weeks [11] - 54:3, 244:7, 244:13, 259:17, 260:13 warm [16] - 19:3, 54:4, 55:13, 69:10, **WHARTON** [1] - 3:15 244:21, 245:4, Vikings' [1] - 36:18 169:1, 171:17, Wharton [1] - 263:13 76:2, 76:3, 76:9, 250:19, 252:22, 221:1, 221:7, VINCENT [2] - 4:10, 117:12, 134:23 what-if [2] - 180:20, 234:16, 245:24, 260:22, 261:9, weigh [2] - 40:17, 42:7 180:22 5:17 261:15, 263:3, 246:3, 246:12, Vincent [19] - 8:17, weight [1] - 14:2 whereas [3] - 181:20, 266:7, 266:10, 256:25, 257:10, 14:14, 19:18, 20:1, weighted [1] - 423:18 335:5, 370:2 266:14, 268:6, 25:2, 27:25, 28:7, 260:1, 290:25, weird [1] - 393:16 white [1] - 420:21 268:14, 269:22, 28:8, 226:4, 227:13, 370:5, 443:11, Weiss [35] - 100:16, whole [19] - 17:13, 271:2, 271:15, 447:17 228:1, 228:3, 228:4, 100:22, 109:4, 43:3, 51:4, 51:5, **WARM** [1] - 257:2 278:21, 284:18, 229:10, 241:9, 110:2, 113:1, 113:6, 89:10, 220:20, 287:24, 291:13, warmed [7] - 36:19, 249:18, 251:9, 233:16, 233:17, 123:18, 138:11, 294:13, 295:13, 172:14, 173:1, 310:10, 310:14 261:14, 262:14, 237:2, 284:21, 314:10, 318:6, Vincent's [1] - 27:16 246:18, 256:24, 263:13, 263:14, 288:12, 298:9, 322:2, 324:11, 257:16, 259:21 violate [1] - 248:20 264:17, 264:23, 298:15, 317:20, 333:18, 337:15, warmer [8] - 23:22, 329:24, 336:11, violated [2] - 20:25, 267:5, 268:7, 340:21, 348:7, 168:19, 169:10, 252:16 270:16, 271:9, 350:5, 396:23, 348:10, 348:24, 169:12, 178:17, 420:10 violating [1] - 86:12 278:21, 280:11, 406:5, 413:11 220:18, 257:25, 280:20, 284:19, wholly [1] - 10:6 violation [8] - 32:19, wells [19] - 10:12, 291:6 285:8, 300:24, wide [4] - 152:10, 33:16, 35:11, 36:16, 11:8, 14:25, 15:9, warming [4] - 254:2, 315:6, 327:5, 347:6, 218:7, 234:1, 234:5, 153:16, 345:22, 20:4, 76:1, 87:24, 255:15, 256:18, 348:8, 348:23, 346:14 245:15 92:5, 100:12, 110:1, 428:5 357:25, 384:9, wife [1] - 43:16 violations [7] - 24:25, 118:2, 141:4, warms [1] - 171:23 406:6, 407:4, 408:9, 45:12, 228:14, wildly [1] - 393:16 227:13, 261:1, warmth [2] - 178:19, 245:10, 269:19 408:17 willing [6] - 11:7, 261:11, 263:12, 178:22 **WEISS** [1] - 3:15 99:19, 225:12, Violations [1] - 26:7 264:18, 264:24, warmup [1] - 72:9 welcome [2] - 6:6, violence [1] - 46:3 225:15, 226:18, 347:25 warned [6] - 256:6, 439:14 290:3 Virginia [1] - 151:3 WELLS [2] - 4:10, 256:8, 256:10, well-calibrated [2] virtually [2] - 152:9, Wilson [4] - 296:13, 5:18 256:24, 258:7, 260:4 184:25, 426:21 299:11, 376:21, 153:21 Wells' [2] - 11:9, 62:16 warning [1] - 23:15 well-known [1] - 48:11 377:3 vitamins [1] - 153:21 wells' [2] - 8:23, void [1] - 425:24 warranted [2] -Wells [118] - 8:19, win [2] - 48:6, 74:2 117:12 210:16, 355:1 8:25, 10:3, 10:7, winded [1] - 284:16 Wells's [1] - 265:24 11:4, 11:5, 15:4, W Washington [3] window [9] - 392:17, wells's [1] - 337:13 2:21, 3:4, 3:22 16:5, 16:8, 17:6, 404:12, 404:23, wet [25] - 55:6, 171:8, wait [1] - 135:25 20:2, 20:9, 22:21, washy [2] - 324:20, 404:25, 405:19, 178:20, 179:4, waive [1] - 265:13 324:21 25:21, 26:16, 29:20, 405:21, 405:23, 190:3, 190:4, 233:2, waiver [1] - 270:2 waste [1] - 242:15 30:17, 30:18, 31:25, 408:12, 409:10 233:3, 235:21, 32:7, 32:14, 32:21, waives [1] - 267:6 wasting [1] - 442:20 winner [3] - 152:16, 235:23, 235:24, 33:11, 33:14, 33:19, waiving [4] - 8:6, watch [4] - 283:6, 188:21, 330:15 237:8, 289:9, 367:4, 38:19, 39:9, 40:5, 283:16, 379:1, WINSTON [1] - 3:8 267:12, 269:13, 383:3, 383:15, 40:25, 41:10, 41:18, 270:21 406:17 wishy [2] - 324:20, 384:21, 386:18, 41:22, 42:9, 42:21, 324:21 walk [7] - 83:19, watching [1] - 128:17 386:22, 386:23, 43:4, 44:7, 48:16, 128:8, 146:11, water [4] - 55:17, wishy-washy [2] -387:3, 387:6, 422:9 52:9, 61:19, 62:2, 158:19, 163:1, 55:19, 407:24 324:20, 324:21 wetness [16] - 237:14, 62:4, 64:4, 66:6, 169:23, 307:20 waterlogged [1] withdrawn [1] -238:16, 290:10, 66:8, 66:14, 78:5, walked [3] - 305:10, 407:22 138:10 329:11, 360:22, 79:18, 81:22, 83:4, 308:10, 309:8 wave [1] - 82:23 withheld [2] - 14:23,

<del>Case 1:15-cv-0<mark>5916-RMB-JCF - Document 2</del>8-<del>230 - Fi</del>jed <del>08/04/15 - Page</del> 172 of 172age - 54</del></mark>

15:5 WITNESS [104] -49:17, 53:1, 54:14, 54:17, 54:22, 56:2, 56:11, 59:15, 59:18, 60:17, 60:20, 60:23, 61:1, 61:14, 61:17, 66:1, 66:3, 67:2, 68:17, 69:15, 69:18, 69:23, 70:6, 70:21, 70:25, 71:3, 71:10, 71:13, 72:10, 74:23, 80:13, 80:17, 88:11, 88:22, 88:25, 89:4, 89:16, 99:23, 105:15, 109:23, 117:5, 117:8, 117:10, 117:15, 117:18, 117:24, 118:3, 122:21, 124:17, 125:23, 127:25, 128:4, 133:12, 133:18, 136:10, 137:13, 137:15, 137:18, 146:3, 146:6, 146:9, 146:13, 146:15, 146:17, 146:21, 146:24, 147:4, 147:9, 147:14, 147:18, 148:1, 155:20, 155:25, 156:6, 168:10, 168:17, 168:25, 170:11, 170:16, 170:19, 170:24, 177:9, 178:3, 180:4, 180:12, 180:15, 180:18, 180:22, 189:22, 225:21, 230:5, 252:4, 265:22, 271:25, 298:9, 318:5, 397:12, 398:5, 398:8, 403:25, 409:13, 409:19, 439:12, 449:14 witness [32] - 29:15, 47:2, 47:5, 100:2, 136:8, 139:7, 148:22, 150:7, 150:8, 153:6, 198:23, 226:4, 227:20, 239:6, 260:23, 260:25, 261:2, 261:3, 267:7, 279:20, 292:9, 292:10, 341:16, 341:18, 342:17, 345:4, 411:16, 411:18, 439:13,

439:15, 454:5, 454:18 Witness [2] - 5:14, 5:21 witnesses [21] - 8:22, 20:12, 20:14, 20:15, 29:22, 30:10, 38:2, 226:24, 227:7, 227:10, 227:16, 289:13, 289:18, 292:11, 293:15, 297:19, 302:21, 314:18, 325:18, 325:22, 326:9 **WITNESSES** [4] - 4:8, 4:13, 5:13, 5:20 won [1] - 48:8 word [12] - 42:17, 44:22, 263:4, 274:8, 274:20, 308:19, 312:21, 312:22, 328:16, 339:9, 452:16, 452:17 words [18] - 17:21, 43:10, 61:9, 66:9, 72:14, 87:23, 96:20, 208:22, 262:19, 274:10, 285:17, 303:8, 324:19, 343:10, 380:23, 398:24, 399:5,

wordsmithing [1] - 269:12 wore [1] - 400:13 works [6] - 12:8, 195:21, 195:24, 302:1, 302:2, 345:22 world [9] - 15:25, 43:14, 201:18, 282:25, 284:7,

447:19

428:16, 433:23 worn [1] - 400:14 worried [1] - 85:16

330:8, 411:8,

worried [1] - 85:16 worries [2] - 94:24, 95:9

worse [1] - 43:12 worth [5] - 349:23, 395:21, 415:9, 425:21, 426:7 wow [1] - 192:23

write [10] - 94:24, 231:19, 312:15, 313:23, 313:24, 318:8, 335:19,

340:8, 391:4, 411:10 **writes** [7] - 62:20, 78:20, 79:11, 92:11, 92:15, 299:24, 330:6

writing [6] - 161:20, 232:18, 265:19, 269:2, 277:18, 329:9 written [15] - 92:11, 239:10, 241:22, 247:23, 247:24, 252:14, 263:4, 263:6, 268:17, 268:20, 289:15, 293:18, 299:8, 313:18, 336:6 wrote [34] - 18:21, 18:22, 66:8, 78:25, 79:5, 85:21, 94:18, 95:8, 95:12, 191:14, 242:4, 263:22, 273:20, 278:4, 278:5, 289:3, 289:19, 290:6, 291:14, 299:21, 300:8, 300:10, 302:9, 306:15, 306:17, 306:25, 307:1, 325:6, 330:8,

439:17, 457:8 YORK [1] - 1:24 young [1] - 284:25 yourself [11] - 8:4, 27:6, 27:8, 94:22, 95:13, 95:24, 96:1, 145:1, 245:1, 311:11, 324:2 yourselves [1] - 8:22

312:21, 313:24,

336:18, 337:6, 338:9

333:9, 333:16,

YEE [2] - 4:3, 4:5

Yee's [1] - 108:21

yield [2] - 220:15,

yields [1] - 403:12

York [30] - 1:16, 2:4,

2:11, 2:12, 2:16,

227:22, 261:5,

330:6, 330:19,

345:5, 411:20,

280:19, 280:24,

3:10, 3:16, 6:1, 24:3,

47:7, 61:13, 150:10,

275:19

222:4

yesterday [2] - 27:24,

X

392:12, 408:6, 408:7

**XI** [2] - 350:15

374:1, 374:5,

Y

Yale [6] - 15:23, 150:18, 150:20, 150:21, 150:22, 196:23 year [12] - 22:14,

year [12] - 22:14, 23:10, 47:16, 54:25, 71:16, 129:6, 129:8, 152:15, 152:25, 153:9, 261:17, 378:20

years [32] - 24:2, 43:18, 49:19, 69:15, 70:20, 75:12, 75:13, 75:19, 82:14, 116:13, 121:1, 129:1, 142:18, 150:22, 150:23, 153:8, 154:1, 156:7, 196:5, 196:12, 196:14, 236:11, 304:17, 378:20, 378:21, 378:25, 380:6, 412:6, 412:14, 412:16, 440:6 years' [1] - 379:2

zealously [3] - 271:20, 323:6, 323:9 zero [8] - 58:19, 58:21, 170:14, 170:17, 173:1, 389:22, 397:23, 399:3

Yee [10] - 105:11,

111:6, 139:8,